



2023 Annual Report

Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Small Network Equipment

Prepared on behalf of the
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TABLE OF CONTENTS

| | |
|---|----|
| EXECUTIVE SUMMARY | 4 |
| OVERVIEW OF THE VOLUNTARY AGREEMENT | 5 |
| Voluntary Agreement Objectives..... | 5 |
| Voluntary Agreement Signatories and Steering Committee..... | 5 |
| Signatory Commitments..... | 7 |
| Independent Administrator and Auditor Role..... | 7 |
| New Feature Process for Small Network Equipment..... | 7 |
| Remediation and Alternative Energy-Efficiency Strategies | 7 |
| REPORT ON 2023 PROCUREMENT AND SALES COMMITMENTS..... | 8 |
| Energy Efficiency of Small Network Equipment..... | 9 |
| Lab Verification Testing..... | 12 |
| Consumer Access to Energy-Efficiency Information..... | 12 |
| CONCLUSION | 12 |
| APPENDIX A: SMALL NETWORK EQUIPMENT PURCHASED OR SOLD BY VOLUNTARY AGREEMENT SIGNATORIES IN 2023..... | 13 |
| APPENDIX B: CONSUMER ACCESS TO SMALL NETWORK EQUIPMENT ENERGY-EFFICIENCY INFORMATION..... | 47 |
| APPENDIX C: 2023 AUDIT REPORT | 47 |

LIST OF TABLES

| | |
|---|----|
| Table 1: Total Number of Reported Units and Number of Units Meeting Energy-Efficiency Levels, by Equipment Type | 8 |
| Table 2: Weighted Average Power Consumption for Small Network Equipment Categories 2015-2023..... | 9 |
| Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023..... | 14 |
| Table 4: Voluntary Agreement Allowance Descriptions..... | 45 |
| Table 5: Consumer Access to Small Network Equipment Energy-Efficiency Information..... | 47 |

LIST OF FIGURES

| | |
|--|----|
| Figure 1: Weighted Average Power of New SNE Purchases Relative to Broadband Speeds..... | 4 |
| Figure 2: Small Network Equipment, by Equipment Type..... | 8 |
| Figure 3: Annual Growth of Fixed Consumer Broadband Download Speeds..... | 10 |
| Figure 4: Weighted Average Energy Usage by Equipment Type, Relative to Average Broadband Download Speed..... | 11 |
| Figure 5: Weighted Average Power of Small Network Equipment Devices vs. Download Speed 2015-2023..... | 11 |

EXECUTIVE SUMMARY

In 2015, the largest U.S. residential broadband Internet service providers and manufacturers of small network equipment (SNE), such as modems and routers used by consumers to access such services, led by NCTA — The Internet & Television Association, the Consumer Technology Association (CTA), and CableLabs®, signed the Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Small Network Equipment. This agreement is modeled after the successful Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Set-Top Boxes. The primary objective of the agreement is to increase the energy efficiency of SNE while promoting rapid innovation and timely introduction of new and improved features. The service provider signatories served approximately 92.5 million residential U.S. Internet subscribers at the end of 2023, accounting for nearly 85% of the wireline Internet access market.

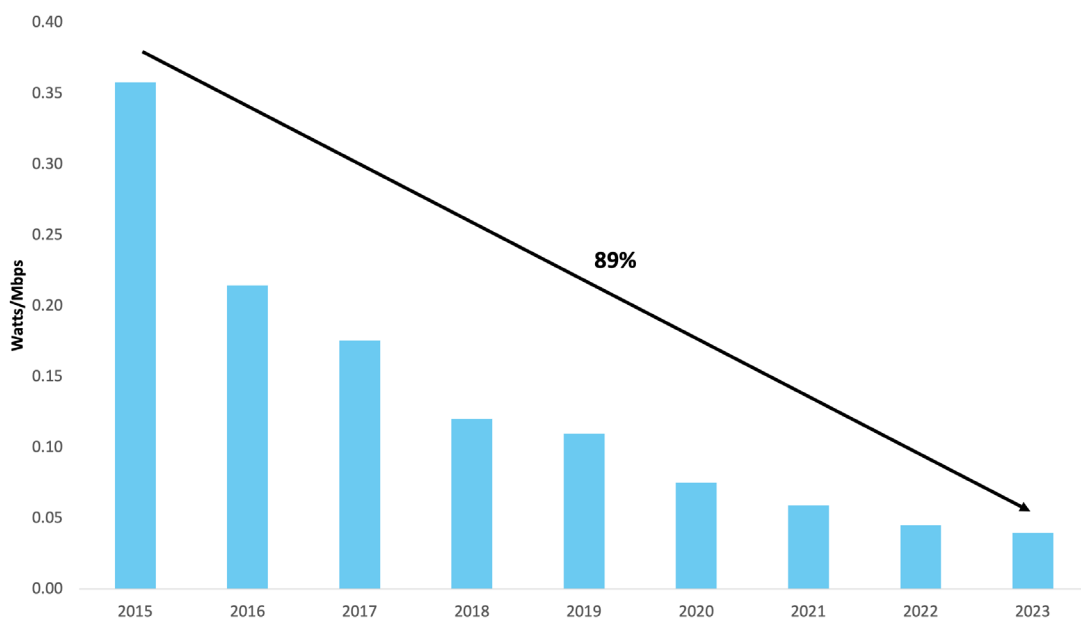
One of the requirements of the Voluntary Agreement is the publication of an annual report that summarizes developments for the previous calendar year. This ninth annual report has been prepared by the Independent Administrator and Auditor, D+R International, Ltd. (D+R).

Under the Voluntary Agreement, signatories commit that at least 90% of all SNE purchased by each service provider or sold by each manufacturer at retail each year will meet the energy-efficiency levels established under the Voluntary Agreement. In 2022, the Voluntary Agreement was extended through 2025 with a new schedule of more stringent “Tier 3” allowances that became effective in 2023, developed in partnership with the Energy Advocate signatory, Pacific Gas and Electric Company (PG&E).

This report is the first report to evaluate the parties’ satisfaction of their commitments under the Tier 3 efficiency levels that became applicable in 2023. The findings of this report are supported by D+R’s review of data from the signatories, including an audit of one randomly selected signatory’s records. Overall, 98.6% of SNE purchased or sold by the signatories in 2023 met these Tier 3 levels, and all of the reporting signatories met the 90% commitment individually.

It is difficult to make useful comparisons in the absolute power used by SNE devices over time because the devices are highly varied (even within the three reported categories) and change significantly over time to support consumer demand for increased speed and Wi-Fi coverage. For that reason, these reports have evaluated power levels measured against increased performance and capability. The weighted average power across all categories of new SNE relative to broadband speed delivered has decreased by 89%, and has declined every year under the Voluntary Agreement, as shown in Figure 1.

Figure 1: Weighted Average Idle Power of New SNE Purchases Relative to Broadband Speeds



These figures were calculated by dividing the weighted average power across all equipment types, as verified by D+R in this report, by the mean fixed wireline consumer broadband download speed for each year as measured by Ookla.

With increased speeds and functionality of devices, this report finds that the signatories are delivering SNE functionalities more efficiently. SNE has evolved to stay ahead of consumer demand for faster broadband services, reduced latency, improved Wi-Fi signal strength, and increased capacity for more devices at higher speeds within the home. Support for these features and increased speeds requires more energy for processing, memory, and other functions. To maintain the trend of delivering increasingly robust broadband services while still meeting the commitments of the Voluntary Agreement, the signatories will need to continue to prioritize and invest in energy-efficiency improvements. Consumers and other stakeholders will be able to monitor the parties' progress at www.energy-efficiency.us, which includes links to energy-efficiency information for SNE purchased or sold by each commercial signatory, as well as all previously published annual reports.

OVERVIEW OF THE VOLUNTARY AGREEMENT

Guided by the objective of improved energy efficiency, the signatories crafted the Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Small Network Equipment in 2015 to reduce energy consumption and environmental impact, save their customers money, increase the reliability of their networks, and preserve flexibility conducive to rapid innovation and timely introduction of new features. The Voluntary Agreement provides a framework for the broadband Internet industry to deliver market-based energy-efficiency gains that keep pace with technological innovation and is modeled on the successful Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Set-Top Boxes that was signed in 2012.

The Internet service provider signatories provided wired broadband Internet services to approximately 92.5 million U.S. residential customers, or 85% of that market in 2023.¹ The service provider coverage of the Voluntary Agreement declined for this 2023 report due to the withdrawal of Lumen, but the overall coverage of the market has been strengthened by the addition of numerous vendor signatories since the start of 2020.

The Voluntary Agreement classifies SNE into three categories:

- **Broadband Modems:** Simple network devices that enable high-speed data service with a Wide Area Network (WAN) interface to a service provider wired or optical network, and typically a single Local Area Network (LAN) interface for the customer premise network. The Broadband Modem category does not include devices with integrated router or IEEE 802.11 (Wi-Fi) wireless access point functionality.
- **Integrated Access Devices (IAD):** Broadband network devices include a WAN interface to a service provider wired or optical network, and one or more of the following functions on the LAN interface: multiport routing, Wi-Fi wireless access point functionality, and/or Voice over Internet Protocol (VoIP).
- **Local Network Equipment (LNE):** Devices that do not have a direct interface to a service provider wired or optical network. This category consists principally of routers, but includes wireless access points, switches, and network extenders that bridge or extend a LAN beyond its physical limitations.²

Voluntary Agreement Objectives

The objectives of the Voluntary Agreement are to continue improvements in the energy efficiency of SNE, and to foster device and service functionality, while encouraging innovation and competition. The Voluntary Agreement aims to achieve these goals through flexible approaches that allow the delivery of high quality, innovative services to consumers.

Voluntary Agreement Signatories and Steering Committee

The signatories and participants in the Voluntary Agreement are listed below. The service provider and vendor signatories together may be referred to as the commercial signatories.

¹Based on data provided by the service provider signatories, NCTA - The Internet & Television Association, and the Consumer Technology Association.

²For the full definitions of these categories, see Appendix A of this report or Annex 1 of the Voluntary Agreement.

Energy Advocate Signatory

- Pacific Gas and Electric Company

Service Provider Signatories

- Altice USA
- AT&T
- Charter Communications d/b/a Spectrum
- Comcast
- Cox Communications
- Frontier Communications
- Verizon

Vendor Signatories

- Actiontec Electronics
- ASUSTeK Computer Inc. d/b/a ASUS
- CommScope³
- eero
- Google
- Linksys USA
- Netgear
- Plume
- Sagemcom Broadband
- TP-Link
- Ubee Interactive
- Vantiva

Other Organizations

- Cable Television Laboratories (CableLabs)
- Consumer Technology Association (CTA)
- NCTA - The Internet & Television Association

The Voluntary Agreement obligates the Steering Committee to designate an Independent Administrator and Auditor to publish an annual report. The Steering Committee designated D+R as the Independent Administrator and Auditor in 2015, and D+R has continued in this role for 2023. This report is the ninth annual report.

The Voluntary Agreement requires that the Steering Committee meet at least once each year. The Steering Committee convened two times in 2023. Additional responsibilities of the Steering Committee include the following:

- Managing the Voluntary Agreement
- Hiring the Independent Administrator
- Reviewing proposals for energy allowances based on new features, which the Steering Committee can approve, reject, or add to the Voluntary Agreement as appropriate
- Evaluating the effectiveness of the Voluntary Agreement in achieving its purposes
- Adopting new or revised efficiency measures, courses of action, and amendments to the Voluntary Agreement as technologies and services change

In 2022, the signatories renewed the Agreement, extending the term through 2025 with a report in 2026. The amended agreement also defines a more rigorous Tier 3 schedule of allowances that went into effect beginning in 2023. This is the first report on Tier 3 levels.

³CommScope's consumer broadband equipment division was purchased by Vantiva in January 2024. A separate CommScope report was provided to D+R for this 2023 report, but CommScope will no longer appear as a separate signatory after this report.

Signatory Commitments

The primary commitment is to procure and sell energy-efficient SNE. Specifically, beginning January 1, 2016, the commercial signatories committed that 90% of new SNE purchased by service providers or sold at retail by vendors each year will meet the energy-efficiency levels established in the Voluntary Agreement. These efficiency levels became more rigorous in 2020 under a Tier 2 schedule of allowances and were further tightened in 2023 under the new Tier 3 schedule of allowances. The signatories also committed to provide subscribers and prospective customers with reasonable access to energy-efficiency information for SNE, furnish the Independent Administrator with annual data and test results, and participate in third-party lab testing and audits to verify the information in their annual data reports.

Independent Administrator and Auditor Role

The Independent Administrator is a third party appointed by the Steering Committee. Under the Voluntary Agreement, the Independent Administrator must aggregate and compile confidential procurement and sales data submitted by the signatories. If the Voluntary Agreement procurement or sales commitments are not met, the Independent Administrator is responsible for working with the signatory to develop a remedial plan under procedures set out in the Voluntary Agreement.

The Independent Administrator is also charged with conducting an audit of one randomly selected service provider's procurement figures or one vendor's sales figures each year. The successful results of the 2023 audit are presented in Appendix C.

New Feature Process for Small Network Equipment

The New Feature Process is intended to encourage innovation and competition by service provider and vendor signatories, and to encourage energy efficiency by design. This process provides a path for signatories to innovate and add new features, including features with no assigned allowances and features in the early stages of design, without being treated as being in violation of Voluntary Agreement energy allowances or commitments. If a service provider signatory deploys, or a vendor signatory sells, SNE that includes a new feature with no allowance, and the presence of the feature causes the device to exceed the prescribed allowances, the signatory may set and report an appropriate initial allowance for the power consumption of that feature when it reports the device under the Voluntary Agreement. When such information is reported, the Steering Committee will propose appropriate allowances and effective dates. For the 2023 reporting period, one new feature allowance was proposed.

Remediation and Alternative Energy-Efficiency Strategies

A signatory that fails to meet its procurement or sales commitment must either seek advance credits for alternative energy-efficiency measures or must undertake a remedial plan that secures energy savings that offset the incremental energy associated with devices purchased or sold in excess of the commitment. All signatories met this commitment in 2023. As indicated in our prior report, the signatory that narrowly missed its commitment in 2022 developed a remedial plan that was approved by a subcommittee that includes PG&E as the Energy Advocate. D+R verified in 2024 that the signatory successfully implemented and completed its remedial plan and offset the excess energy associated with its non-compliant devices.

REPORT ON 2023 PROCUREMENT AND SALES COMMITMENTS

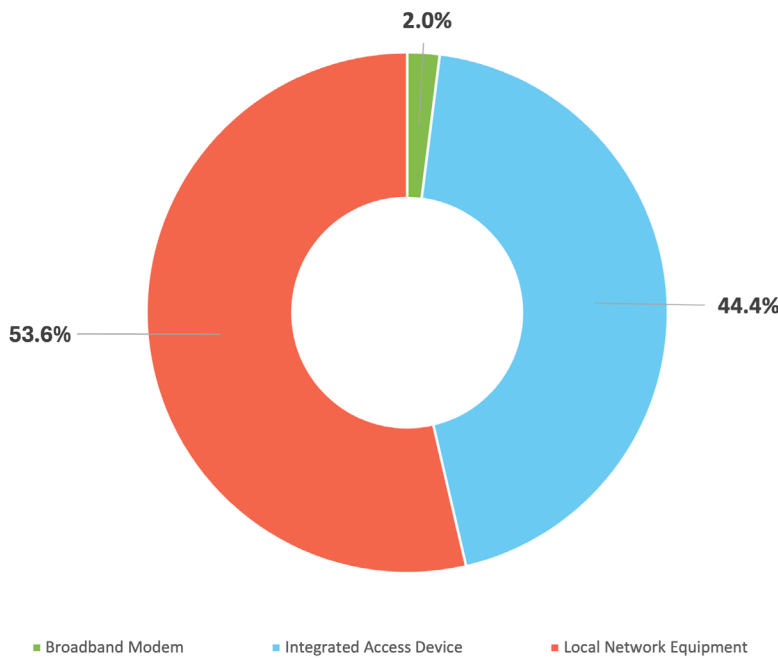
Under the Voluntary Agreement, the commercial signatories committed that 90% of the new SNE purchased or sold at retail each year will meet specified energy-efficiency levels. The Independent Administrator collected data from the service provider and retail vendor signatories to measure satisfaction of these commitments in 2023. Overall, 98.6% of reported units satisfied the Tier 3 energy-efficiency levels of the Voluntary Agreement in 2023. All signatories met the 90% threshold individually, and the majority of signatories had 100% of their new purchases or sales meet the energy-efficiency levels of the Agreement. IADs and LNEs had the greatest percentage of SNE meeting Tier 3 at 98.9% and 98.7% respectively, and 89.9% of broadband modems met Tier 3 levels as shown in Table 1. These results demonstrate that the signatories met their procurement and sales commitments under the Voluntary Agreement in 2023.

Table 1: Total Number of Reported Units and Number of Units Meeting Energy-Efficiency Levels, by Equipment Type

| Year | 2023 | | |
|--------------------------|-------------------|------------------------------|-------------------------------|
| | Reported Units | Number Meeting Tier 3 Levels | Percent Meeting Tier 3 Levels |
| Broadband Modem | 739,833 | 665,154 | 89.9% |
| Integrated Access Device | 16,392,479 | 16,212,109 | 98.9% |
| Local Network Equipment | 19,817,210 | 19,556,283 | 98.7% |
| Total | 36,949,522 | 36,433,546 | 98.6% |

Continuing the trend from the previous year, LNEs and IADs each represent approximately half of reported products purchased or sold in 2023, followed by Broadband Modems at 2%. Figure 2 shows the category breakdown, by percentage, of the units purchased or sold in 2023.

Figure 2: New Small Network Equipment, by Equipment Type



Energy Efficiency of Small Network Equipment

Details of each model of SNE purchased or sold by the signatories in 2023 are provided in Appendix A. The energy efficiency of each model is assessed based upon its particular suite of functions and capabilities, which vary widely. The overall trend in the average power (weighted based upon the volume of new units) of each of the three categories of SNE defined by the Voluntary Agreement is shown in Table 2.

To meet consumers' increased demands for higher-speed broadband services and increased Wi-Fi capacity in the home, the design and features of SNE have changed substantially since the Voluntary Agreement was adopted. These changes make it difficult to draw useful comparisons in the absolute power used by SNE devices over time, and that challenge is compounded by the fact that the devices are highly varied even within the three reported categories. For these reasons, we not only report changes in total power but also evaluate the efficiency of SNE products relative to their capability.

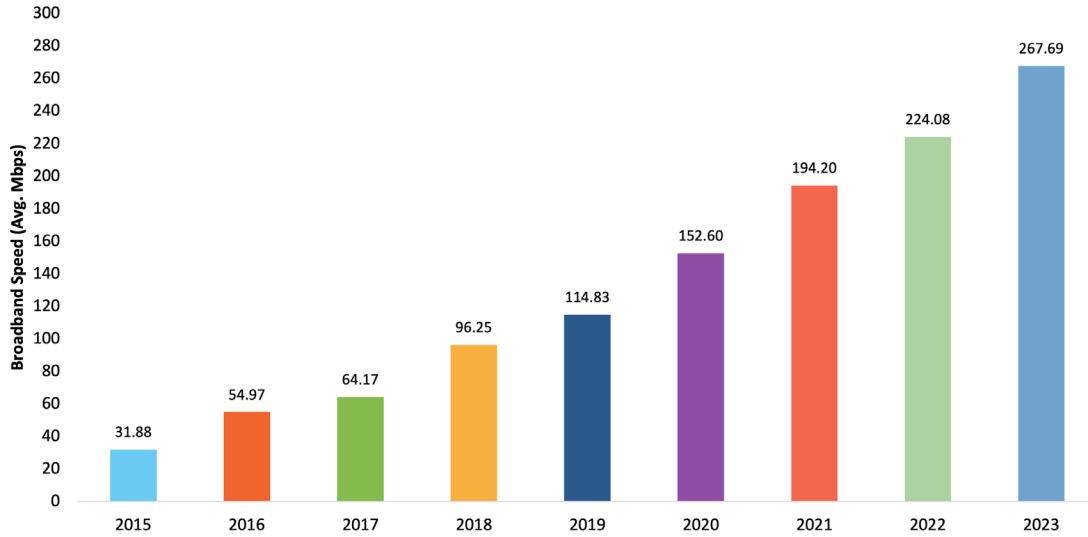
The weighted average power of SNE devices purchased or sold by the signatories increased by 6% from 2022 to 2023, though the weighted average power in 2023 is still 6% lower than in 2015 when the Voluntary Agreement began even though the newer SNE supports substantially more robust features and functionalities. The year-over-year increase is primarily attributable to a 15% rise in the weighted average power of reported LNE devices which represent a slight majority of the reported devices in 2023. Even with this increase, LNE continues to measure the lowest weighted average power of the three categories, at 7.3 watts.

Table 2: Weighted Average Power Consumption for Small Network Equipment Categories 2015-2023

| SNE Category | Average Weighted Power (in Watts) | | | | | | | | |
|-------------------------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
| Broadband Modem | 6.67 | 7.11 | 8.12 | 9.36 | 9.65 | 9.43 | 9.76 | 9.21 | 9.41 |
| Integrated Access Device | 13.30 | 13.53 | 13.65 | 13.73 | 14.49 | 13.87 | 13.51 | 14.40 | 14.68 |
| Local Network Equipment | 6.44 | 5.62 | 5.28 | 6.79 | 7.64 | 7.21 | 7.55 | 6.36 | 7.31 |
| Total Weighted Average | 11.36 | 11.79 | 11.26 | 11.55 | 12.59 | 11.49 | 11.49 | 10.09 | 10.62 |

The increase in nominal power of SNE in 2023 can be attributed to the power requirements of supporting much faster broadband speeds and stronger Wi-Fi. New WAN technologies such as 10G EPON and GPON, new Wi-Fi technologies such as Wi-Fi 6E, and devices with more radios, antennas, and MIMO spatial streams, can require more power. The signatories have made improvements to deliver these new functionalities more efficiently over time. Consumers are bringing an increasing number and variety of connected devices into their homes and streaming an increasing amount of video content to mobile devices. In the home, this streamed content is typically delivered through the consumer's IAD or modem. To support these devices and content, the average broadband connection speed for U.S. residential households has increased more than eightfold in just eight years, as shown in Figure 3.

Figure 3: Annual Growth of Fixed Consumer Broadband Download Speeds

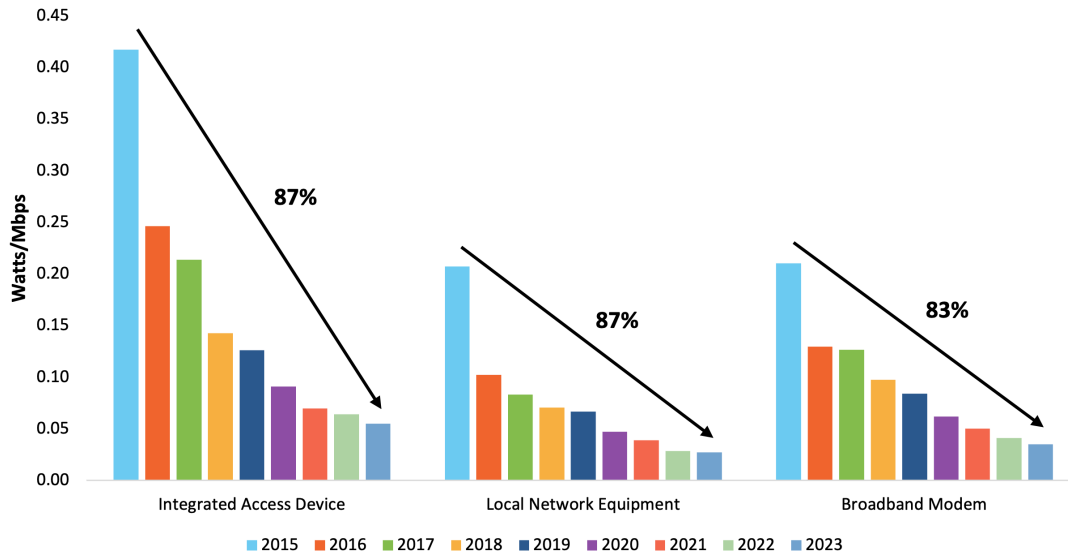


Mean fixed broadband download speeds per year obtained from Ookla.

Moreover, the signatories strive to provide equipment that will be capable of supporting the speeds and services that their customers are predicted to want over the next several years, not just current demand. Service providers wish to give customers the opportunity to upgrade their Internet service without having to wait for a service provider technician to visit and replace their equipment. In addition, it would be environmentally and economically wasteful to procure new SNE today that would be quickly rendered obsolete by changes in consumer demand. As a result, SNE is designed and manufactured to support more demanding speeds and capabilities prior to their widespread adoption by consumers.

These reports have accordingly evaluated the efficiency of SNE products relative to their capability. The weighted average power of each category of new SNE relative to broadband speed delivered has decreased by 89% overall, and 87% for IADs, 87% for LNE, and 83% for broadband modems since 2015, as shown in Figure 4 below.

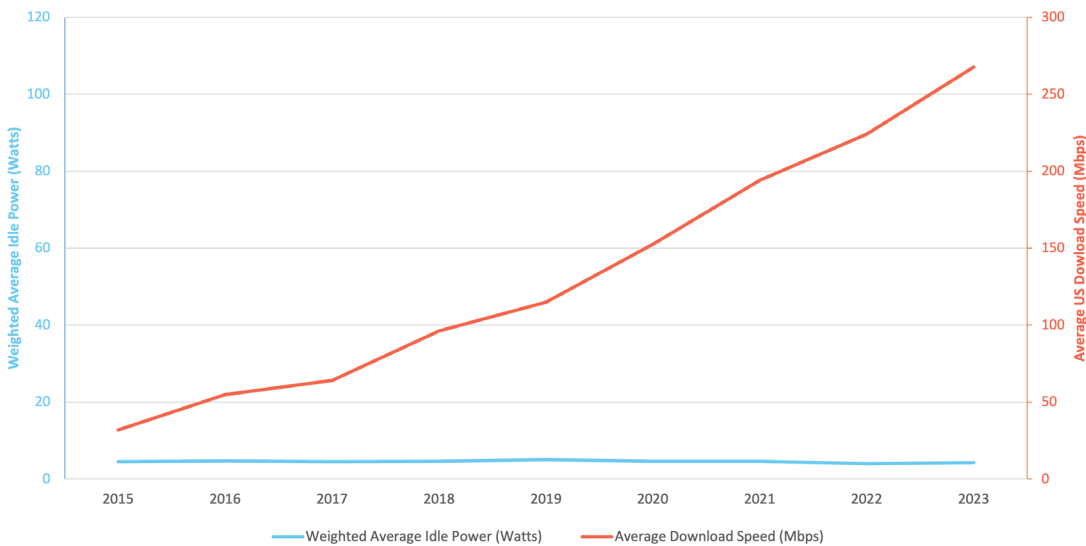
Figure 4: Weighted Average Energy Usage by Equipment Type, Relative to Average Broadband Download Speed



These figures were calculated by dividing the weighted average power of each equipment type, as verified by D+R in this report, by the average fixed wireline consumer broadband mean download speed obtained from Ookla.

Figure 5 below illustrates the contrast between the relative stability of the weighted average power consumption of reported SNE and the rapid increase in average download speeds during the eight years of the Voluntary Agreement. The commercial signatories’ ability to support these higher-speed services without a significant overall increase in power consumption demonstrates that their SNE devices are delivering services more efficiently, and thereby, are accomplishing the core objectives of the Voluntary Agreement.

Figure 5: Weighted Average Power of Small Network Equipment Devices vs. Average Download Speed 2015-2023



To continue to meet consumer demands for higher broadband speeds in the future, the commercial signatories will need to offer devices with greater functionality than those offered today, while still meeting the commitments of the Voluntary Agreement. With Tier 3 levels having become applicable in 2023 and Tier 4 levels already under development, the Voluntary Agreement is expected to continue to drive purchase and retail decisions, increasing the efficiency of equipment in the market and in consumers’ homes.

Lab Verification Testing

Per the Voluntary Agreement, the Independent Administrator is tasked with randomly selecting one model from each commercial signatory for independent lab verification testing. Lab verification testing is conducted in third-party laboratories approved by the Steering Committee or under a supervised signatory testing program with an accredited independent observer approved by the Steering Committee. Test results are compared to the reported value as well as the maximum power consumption under the applicable allowances for that device.

For 2023, every model tested measured within the applicable Tier 3 energy-efficiency levels and within the accepted tolerances of the reported values. These results validate and support the findings in this report.

Consumer Access to Energy-Efficiency Information

All signatories committed to provide subscribers and prospective customers with reasonable access to energy-efficiency information for SNE purchased or sold at retail. This information makes it easy for consumers to learn about energy consumption of recent models.

D+R confirmed that this information is readily available to the public from the links listed in Appendix B. The links are also available at www.energy-efficiency.us.

CONCLUSION

The Voluntary Agreement continues to be successful in improving the energy efficiency of SNE used by American consumers to access home broadband Internet service. 98.6% of reported units satisfied the Tier 3 energy-efficiency levels of the Agreement despite increased consumer demands for robust capabilities that consume power. All signatories met the 90% threshold, and the weighted average power of new SNE relative to broadband speed has decreased by 89% since 2015. As the signatories continue to employ even greater functionality in their devices while still meeting the energy-efficiency levels of the Agreement, the Voluntary Agreement can be expected to continue to promote both product innovation and energy efficiency.

APPENDIX A: SMALL NETWORK EQUIPMENT PURCHASED OR SOLD BY VOLUNTARY AGREEMENT SIGNATORIES IN 2023

Appendix A lists SNE reported by the signatories as purchased or sold in 2023. Please note that the same model could have variances in reported power for several reasons, including differences in reported versus measured power, enabling of different product features, and/or different software deployed in the device by different signatories. Modal power figures in this Appendix are rounded up to the next one-hundredth digit (e.g., 5.126 watts would be rounded up to 5.13 watts).

Vendor reports include only the models that were sold via retail channels. Models sold to service providers are reported by the service providers.

The Voluntary Agreement establishes the following categories of SNE subject to the Agreement:

- **Broadband Modem.** A simple network device that enables high-speed data service with a Wide Area Network (WAN) interface to a service provider wired or optical network, and typically a single Local Area Network (LAN) interface for the customer premise network. The Broadband Modem category does not include devices with integrated router or IEEE 802.11 (Wi-Fi) wireless access point functionality.
- **Integrated Access Device (IAD).** A network device that enables high-speed data service with a WAN interface to a service provider wired or optical network and one or more of the following functions on the LAN interface: multiport routing, IEEE 802.11 (Wi-Fi) wireless access point functionality, and/or VoIP.
- **Local Network Equipment (LNE).** The following local network devices that do not have a direct interface to a Service Provider wired or optical network:
 - **Wireless Access Point:** A device that typically includes one or more Ethernet interfaces, and that provides IEEE 802.11 (Wi-Fi) wireless network connectivity to multiple clients as its primary function.
 - **Router:** A network device that forwards packets from one network interface to another based on network layer information (typically IP destination address). Devices fitting this definition may provide both wired and wireless network connectivity.
 - **Switch:** A network device that filters and forwards frames based on the Ethernet destination MAC address of each frame as its primary function.
 - **Network Extender:** A device that bridges or extends a local area network beyond its physical limitations using one or more transmission media such as twisted pair, coax, Wi-Fi, or powerline.

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------|---------------|---|-------------------------------|------------------------|
| Altice | Altice Labs | XSR250GK | IAD 10GB PON | GigE LAN(4), 10 GigE LAN, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), USB 3 | 13.70 | Yes |
| Altice | Altice Labs | XSR150DX | IAD 10GB PON | GigE LAN(4), 10 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS, USB 3 | 12.83 | Yes |
| Altice | Altice Labs | XSR150DXM | IAD 10GB PON | GigE LAN(4), 10 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS, USB 3 | 13.28 | Yes |
| Altice | Altice Labs | GR140DGM | IAD SFP GPON | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS, USB 3 | 9.00 | Yes |
| Altice | Altice Labs | GR240JH | IAD Fiber WAN | GigE LAN(3), 2.5 GigE LAN, 2.4 GHz Radio LP, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), USB 3 | 12.10 | Yes |
| Altice | Ubee | UBC1340 | IAD D3.1 | GigE LAN(4), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, FXS(2), USB 3 | 16.60 | Yes |
| Altice | Ubee | UBC1338 | IAD D3.1 | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, FXS, USB 3 | 14.90 | Yes |
| Altice | Altice Labs | D222AH | Advanced LNE | GigE LAN, 2.5 GigE LAN, 2.4 GHz Radio LP, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 8.24 | Yes |
| Altice | Altice Labs | D2260Gv2 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM | 5.96 | Yes |
| Altice | Airties | Air4930 | Basic LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM | 7.75 | No |
| ASUS | Asus | Blue Cave | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base(2) | 12.90 | No |
| ASUS | Asus | CM-32 | IAD D3.0 | D3 above 4x4(7), GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2(2), PCIe Gen 1 & 2 Base(2) | 13.50 | Yes |
| ASUS | Asus | CMAx6000 | IAD D3.1 | D3 above 4x4(7), GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2) | 12.67 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------|--------------|--|-------------------------------|------------------------|
| ASUS | Asus | CT8 | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 8.73 | Yes |
| ASUS | Asus | EBM68 | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 9.02 | Yes |
| ASUS | Asus | EBR63 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 5.70 | Yes |
| ASUS | Asus | ET12 | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.5 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 14.50 | Yes |
| ASUS | Asus | ET8 | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 9.00 | Yes |
| ASUS | Asus | GS-AX3000 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.50 | Yes |
| ASUS | Asus | GS-AX5400 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.90 | Yes |
| ASUS | Asus | GT6 | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 11.80 | Yes |
| ASUS | Asus | GT-AC2900 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 10.34 | No |
| ASUS | Asus | GT-AC5300 | Advanced LNE | GigE LAN(9), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 3(2), PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 14.31 | Yes |
| ASUS | Asus | GT-AX11000 | Advanced LNE | GigE LAN(5), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 3(2), PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 13.21 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|----------------|--------------|---|-------------------------------|------------------------|
| ASUS | Asus | GT-AX11000 PRO | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 10 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 15.80 | Yes |
| ASUS | Asus | GT-AX6000 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.5 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 11.50 | Yes |
| ASUS | Asus | GT-AXE11000 | Advanced LNE | GigE LAN(5), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 3(2), PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 13.60 | Yes |
| ASUS | Asus | GT-AXE16000 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 10 GigE LAN Active, 10 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(4), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 20.00 | Yes |
| ASUS | Asus | GT-BE98 PRO | Advanced LNE | GigE LAN, 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active, 10 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP(2), 6 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(4), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 26.10 | Yes |
| ASUS | Asus | LYRA VOICE | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, Speaker, Voice Control | 7.40 | Yes |
| ASUS | Asus | RP-AC1900 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 9.04 | Yes |
| ASUS | Asus | RP-AC51 | Advanced LNE | Fast E LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP | 2.51 | Yes |
| ASUS | Asus | RP-AC55 | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, Bluetooth | 2.90 | Yes |
| ASUS | Asus | RP-AX56 | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS | 3.20 | Yes |
| ASUS | Asus | RP-AX58 | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 3.83 | Yes |
| ASUS | Asus | RP-N12 | Advanced LNE | Fast E LAN, 2.4 GHz Radio LP | 1.60 | Yes |
| ASUS | Asus | RT-AC1200 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, USB 2 | 3.50 | Yes |
| ASUS | Asus | RT-AC1200 V2 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP | 2.32 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------|--------------|--|-------------------------------|------------------------|
| ASUS | Asus | RT-AC1200GE | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, USB 2 | 4.86 | Yes |
| ASUS | Asus | RT-AC1900P | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 11.90 | No |
| ASUS | Asus | RT-AC3100 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 14.10 | No |
| ASUS | Asus | RT-AC3200 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 12.94 | No |
| ASUS | Asus | RT-AC5300 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 16.53 | No |
| ASUS | Asus | RT-AC65 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3 | 4.96 | Yes |
| ASUS | Asus | RT-AC66U B1 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 9.49 | Yes |
| ASUS | Asus | RT-AC67P | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3 | 4.96 | Yes |
| ASUS | Asus | RT-AC68U | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 10.19 | No |
| ASUS | Asus | RT-AC750 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 8.74 | Yes |
| ASUS | Asus | RT-AC86U | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 10.72 | No |
| ASUS | Asus | RT-ACRH12 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) HP, USB 2 | 4.86 | Yes |
| ASUS | Asus | RT-ACRH18 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3 | 4.96 | Yes |
| ASUS | Asus | RT-AX1800S | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS | 6.11 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------|--------------|--|-------------------------------|------------------------|
| ASUS | Asus | RT-AX3000 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.10 | Yes |
| ASUS | Asus | RT-AX3000 V2 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, AP 5K-10K DMIPS | 7.00 | Yes |
| ASUS | Asus | RT-AX5400 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.13 | Yes |
| ASUS | Asus | RT-AX55 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 5.00 | Yes |
| ASUS | Asus | RT-AX55 V2 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 6.08 | Yes |
| ASUS | Asus | RT-AX56U | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 2, USB 3, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 5.40 | Yes |
| ASUS | Asus | RT-AX57 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 5.60 | Yes |
| ASUS | Asus | RT-AX58U | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.10 | Yes |
| ASUS | Asus | RT-AX58U V2 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 7.00 | Yes |
| ASUS | Asus | RT-AX68U | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 8.50 | Yes |
| ASUS | Asus | RT-AX82U | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.50 | Yes |
| ASUS | Asus | RT-AX82U V2 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.73 | Yes |
| ASUS | Asus | RT-AX86S | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 8.20 | Yes |
| ASUS | Asus | RT-AX86U | Advanced LNE | GigE LAN(5), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3(2), PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 8.75 | Yes |
| ASUS | Asus | RT-AX86U PRO | Advanced LNE | GigE LAN(5), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.90 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------|--------------|--|-------------------------------|------------------------|
| ASUS | Asus | RT-AX88U | Advanced LNE | GigE LAN(9), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3(2), PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 11.40 | Yes |
| ASUS | Asus | RT-AX88U PRO | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.5 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 11.10 | Yes |
| ASUS | Asus | RT-AX89X | Advanced LNE | SFP Backup WAN Present, GigE LAN(9), 10 GigE LAN Active, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(6), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 802.11n 256 QAM, USB 3(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 12.00 | Yes |
| ASUS | Asus | RT-AX92U | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 10.80 | Yes |
| ASUS | Asus | RT-AXE7800 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.70 | Yes |
| ASUS | Asus | RT-BE96U | Advanced LNE | GigE LAN(4), 10 GigE LAN Active, 10 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 17.50 | Yes |
| ASUS | Asus | RT-N12 D1 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP | 2.49 | Yes |
| ASUS | Asus | RT-N300 B1 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP | 1.85 | Yes |
| ASUS | Asus | TUF-AX4200 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 5.87 | Yes |
| ASUS | Asus | TUF-AX5400 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.99 | Yes |
| ASUS | Asus | TUF-AX6000 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.5 GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 6.78 | Yes |
| ASUS | Asus | XC5 | IAD MoCA | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, MoCA, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 6.54 | Yes |
| ASUS | Asus | XD4 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 5.40 | Yes |
| ASUS | Asus | XD5 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS | 4.60 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------|--------------|---|-------------------------------|------------------------|
| ASUS | Asus | XD6 | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.50 | Yes |
| ASUS | Asus | XP4 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 7.98 | Yes |
| ASUS | Asus | XT12 | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.5 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 14.20 | Yes |
| ASUS | Asus | XT8 | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 9.08 | Yes |
| ASUS | Asus | XT8 V2 | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 9.67 | Yes |
| ASUS | Asus | XT9 | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.70 | Yes |
| AT&T | ARRIS | BGW210-700 | IAD VDSL2 | GigE Backup WAN, VDSL2 Simul WAN, GigE LAN(4), 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 14.20 | Yes |
| AT&T | Nokia | BGW320-505 | IAD SFP GPON | GigE Backup WAN, GigE LAN(4), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(4), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 12.60 | Yes |
| AT&T | Nokia | BGW320-505 | IAD GigE | SFP Backup WAN Not Present, GigE LAN(4), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(4), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 10.70 | Yes |
| AT&T | Humax | BGW320-500 | IAD SFP GPON | GigE Backup WAN, GigE LAN(4), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(4), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 13.60 | Yes |
| AT&T | Humax | BGW320-500 | IAD GigE | SFP Backup WAN Not Present, GigE LAN(4), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(4), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 12.00 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|-----------------------|--------------|--------------|--|-------------------------------|------------------------|
| AT&T | Airties | 4971 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, PCIe Gen 1 & 2 Base(2) | 7.20 | Yes |
| AT&T | Airties | 4981 | Advanced LNE | GigE LAN, 2.5 GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, PCIe Gen 1 & 2 Base(2) | 6.40 | Yes |
| Charter | Humax | SONUV1H | IAD 10G EPON | GigE LAN(2), FXS(2) | 6.00 | Yes |
| Charter | Sagemcom | SONUV1S | IAD 10G EPON | GigE LAN(2), FXS(2) | 6.00 | Yes |
| Charter | Hitron | EN2251 | IAD D3.1 | 2.5 GigE LAN Active, FXS(2) | 10.50 | Yes |
| Charter | Sercomm | ES2251 | IAD D3.1 | 2.5 GigE LAN Active, FXS(2) | 10.00 | Yes |
| Charter | Vantiva (Technicolor) | ET2251 | IAD D3.1 | 2.5 GigE LAN Active, FXS(2) | 10.00 | Yes |
| Charter | Ubee | EU2251 | IAD D3.1 | 2.5 GigE LAN Active, FXS(2) | 9.00 | Yes |
| Charter | Askey | SAX1V1K | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 10.00 | Yes |
| Charter | Sagemcom | SAX1V1S | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 9.50 | Yes |
| Charter | Sercomm | SAX1V1R | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 10.00 | Yes |
| Charter | Sagemcom | SAX2V1S | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS | 12.50 | Yes |
| Charter | Sercomm | SAX2V1R | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS | 13.00 | Yes |
| Charter | Sagemcom | MAPV1S | Basic LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base(3) | 6.75 | Yes |
| Comcast | Commscope | TG4482A | IAD D3.1 | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 23.60 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|-----------------------|--------------|--------------|--|-------------------------------|------------------------|
| Comcast | Vantiva (Technicolor) | CGM4331COM | IAD D3.1 | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 17.00 | Yes |
| Comcast | Vantiva (Technicolor) | CGM4981COM | IAD D3.1 | GigE LAN(3), 2.5 GigE LAN Active, 6 GHz Radio (20, 40, 80 MHz) LP, 6 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 18.00 | Yes |
| Comcast | Sagemcom | B3A | Basic LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base(3) | 6.50 | Yes |
| Comcast | WNC | WNXL11BWL | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP(2), 5 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, BATTERY, Bluetooth, PCIe Gen 1 & 2 Base(3) | 8.70 | Yes |
| CommScope | ARRIS | G34 | IAD D3.1 | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base(2) | 14.10 | Yes |
| CommScope | ARRIS | G36 | IAD D3.1 | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base(2) | 16.00 | Yes |
| CommScope | ARRIS | G54 | IAD D3.1 | GigE LAN(4), 10 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 3 Base(2), PCIe Gen 3 Addl Lane(2), AP 5K-10K DMIPS | 25.00 | Yes |
| CommScope | ARRIS | S33 | Basic D3.1 | GigE LAN, 2.5 GigE LAN Active | 10.20 | Yes |
| CommScope | ARRIS | SB6183 | Basic D3.0 | D3 above 4x4(3), GigE LAN | 8.45 | No |
| CommScope | ARRIS | SB6190 | Basic D3.0 | D3 above 4x4(7), GigE LAN | 8.60 | Yes |
| CommScope | ARRIS | SB8200 | Basic D3.1 | GigE LAN(2) | 10.80 | Yes |
| CommScope | ARRIS | SBG10 | IAD D3.0 | D3 above 4x4(3), GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, PCIe Gen 1 & 2 Base(2) | 10.60 | Yes |
| CommScope | ARRIS | SBG6950AC2 | IAD D3.0 | D3 above 4x4(3), GigE LAN(4), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, USB 2 | 11.10 | Yes |
| CommScope | ARRIS | SBG7400AC2 | IAD D3.0 | D3 above 4x4(5), GigE LAN(4), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), USB 2 | 13.20 | Yes |
| CommScope | ARRIS | SBG7600AC2 | IAD D3.0 | D3 above 4x4(7), GigE LAN(4), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), USB 2, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 14.20 | Yes |
| CommScope | ARRIS | SBG8300 | IAD D3.1 | GigE LAN(4), 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, AP 5K-10K DMIPS | 18.20 | Yes |
| CommScope | ARRIS | SBV2402 | IAD D3.0 | D3 above 4x4(5), GigE LAN, FXS(2) | 7.80 | Yes |
| CommScope | ARRIS | SBV3202 | IAD D3.0 | D3 above 4x4(7), GigE LAN, FXS(2) | 9.20 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|-----------------------|---------------|--------------|--|-------------------------------|------------------------|
| CommScope | ARRIS | SVG2482AC | IAD D3.0 | D3 above 4x4(5), GigE LAN(4), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, MoCA, FXS(2), USB 2(2) | 14.30 | Yes |
| CommScope | ARRIS | T25 | IAD D3.1 | GigE LAN(2), FXS(2) | 9.40 | Yes |
| CommScope | ARRIS | W11 | Basic LNE | 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP | 5.80 | Yes |
| CommScope | ARRIS | W21 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), PCIe Gen 1 & 2 Base | 7.50 | Yes |
| CommScope | ARRIS | W30 | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), PCIe Gen 1 & 2 Base(3) | 10.50 | Yes |
| CommScope | ARRIS | W31 | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 11.00 | Yes |
| CommScope | ARRIS | W6U | Advanced LNE | 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), PCIe Gen 3 Base, AP 5K-10K DMIPS | 7.40 | Yes |
| CommScope | ARRIS | W6B | Advanced LNE | 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), PCIe Gen 3 Base, AP 5K-10K DMIPS | 7.40 | Yes |
| CommScope | ARRIS | W61 | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), PCIe Gen 3 Base, AP 5K-10K DMIPS | 8.00 | Yes |
| CommScope | ARRIS | WC4T | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 8.50 | Yes |
| Cox | CommScope | TG4482A | IAD D3.1 | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 23.00 | Yes |
| Cox | Vantiva (Technicolor) | CGM4331Cox | IAD D3.1 | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 17.50 | Yes |
| Cox | Vantiva (Technicolor) | CGM4981Cox | IAD D3.1 | GigE LAN(3), 2.5 GigE LAN Active, 6 GHz Radio (20, 40, 80 MHz) LP, 6 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS(2), USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 19.00 | Yes |
| Cox | Vantiva (Technicolor) | CVA4004COX1 | Basic D3.1 | 2.5 GigE LAN Active | 11.00 | Yes |
| Cox | CommScope | CM8200A/P2-CX | Basic D3.1 | GigE LAN(2) | 10.00 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|------------------|--------------|---|-------------------------------|------------------------|
| Cox | CommScope | TM9202AP2/CX-204 | IAD D3.1 | 2.5 GigE LAN Active, FXS(2) | 12.00 | Yes |
| Cox | Sagemcom | B3A | Basic LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base(3) | 6.50 | Yes |
| eero | eero | eero Beacon | Advanced LNE | 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, AP 5K-10K DMIPS | 3.40 | Yes |
| eero | eero | eero | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, AP 5K-10K DMIPS | 3.60 | Yes |
| eero | eero | eero Pro | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP(2), 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 5.20 | Yes |
| eero | eero | eero 6 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, AP 5K-10K DMIPS | 4.40 | Yes |
| eero | eero | eero Pro 6 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, AP 5K-10K DMIPS | 7.70 | Yes |
| eero | eero | eero 6+ | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 4.50 | Yes |
| eero | eero | eero Pro 6E | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 6 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 7.50 | Yes |
| eero | eero | eero PoE 6 | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 5.40 | Yes |
| eero | eero | eero Max 7 | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 3 Base(2), PCIe Gen 3 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(6) | 21.90 | Yes |
| eero | eero | eero PoE Gateway | Advanced LNE | 2.5 GigE LAN Active(4), 2.5 GigE LAN(4), 10 GigE LAN Active(2), USB 2(2), Bluetooth, 802.15.4, PCIe Gen 3 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(6) | 23.80 | Yes |
| Frontier | CommScope | NVG448 B | IAD VDSL2 | GigE Backup WAN, VDSL2 Simul WAN, GigE LAN(4), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, FXS(2), USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 11.84 | Yes |
| Frontier | CommScope | NVG443 B | IAD VDSL2 | GigE Backup WAN, VDSL2 Simul WAN, GigE LAN(4), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 11.71 | Yes |
| Frontier | Frontier | FCA252 | Basic LNE | 2.5 GigE LAN Active, MoCA | 3.49 | Yes |
| Frontier | eero | eero Pro 6 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, AP 5K-10K DMIPS | 8.20 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------|--------------|--|-------------------------------|------------------------|
| Frontier | eero | eero Pro 6E | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 6 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 8.40 | Yes |
| Frontier | eero | eero 6 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, AP 5K-10K DMIPS | 4.72 | Yes |
| Frontier | eero | eero 6+ | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 4.98 | Yes |
| Frontier | Frontier | F@ST5290V1 | IAD MoCA | GigE Backup WAN, GigE LAN(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP, 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP, 802.11n 256 QAM, MoCA, FXS(2), USB 3, PCIe Gen 1 & 2 Base(3), PCIe Gen 1 & 2 Add'l Lane, AP Add'l Over 10K DMIPS(2) | 15.76 | Yes |
| Frontier | Frontier | FAST399 V1.0 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP, 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base(3), PCIe Gen 1 & 2 Add'l Lane, AP Add'l Over 10K DMIPS(2) | 11.21 | Yes |
| Frontier | eero | eero PoE 6 | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 6.08 | Yes |
| Frontier | eero | eero Max 7 | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, USB 2, Bluetooth, 802.15.4, PCIe Gen 3 Base(2), PCIe Gen 3 Add'l Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(6) | 22.71 | Yes |
| Google | Google | GJ2CQ | Advanced LNE | GigE LAN(2), 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, Bluetooth, AP 5K-10K DMIPS | 4.00 | Yes |
| Google | Google | H2D | Advanced LNE | GigE LAN(2), 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, 2.4 GHz Radio HP, 802.11n 256 QAM, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 5.20 | Yes |
| Google | Google | H2E | Advanced LNE | 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Add'l Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS, Speaker, Voice Control | 4.30 | Yes |
| Google | Google | A0078 | Basic LNE | 2.4 GHz Radio LP, Bluetooth, 802.15.4 | 1.00 | Yes |
| Google | Google | G6ZUC | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 6 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, Bluetooth, 802.15.4, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.00 | Yes |
| Linksys | Linksys | E5350 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP | 3.30 | Yes |
| Linksys | Linksys | E5400 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP | 3.30 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------|--------------|--|-------------------------------|------------------------|
| Linksys | Linksys | E7350 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, AP 5K-10K DMIPS | 5.50 | Yes |
| Linksys | Linksys | EA7200 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3, AP 5K-10K DMIPS | 6.00 | Yes |
| Linksys | Linksys | EA7450 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3 | 6.80 | Yes |
| Linksys | Linksys | LGS105V2 | Basic LNE | GigE LAN(5) | 1.70 | Yes |
| Linksys | Linksys | LGS108V2 | Basic LNE | GigE LAN(8) | 1.00 | Yes |
| Linksys | Linksys | LGS108PV2 | Basic LNE | GigE LAN(8) | 2.00 | Yes |
| Linksys | Linksys | MR5500 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, AP 5K-10K DMIPS | 7.30 | Yes |
| Linksys | Linksys | MR6350 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 3, AP 5K-10K DMIPS | 6.00 | Yes |
| Linksys | Linksys | MR7350 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, AP 5K-10K DMIPS | 7.70 | Yes |
| Linksys | Linksys | MR7500 | Advanced LNE | GigE LAN(4), 5 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, Bluetooth, AP 5K-10K DMIPS | 12.00 | Yes |
| Linksys | Linksys | MX4200 | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, AP 5K-10K DMIPS | 10.80 | Yes |
| Linksys | Linksys | RE7350 | Advanced LNE | GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM | 4.80 | Yes |
| Linksys | Linksys | WHW03 | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM, Bluetooth, 802.15.4 | 5.70 | Yes |
| Linksys | Linksys | MR2000 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 9.60 | Yes |
| Linksys | Linksys | MR5500 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, AP 5K-10K DMIPS | 7.30 | Yes |
| Linksys | Linksys | MX2000 | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 7.70 | Yes |
| Linksys | Linksys | MX5500 | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 9.80 | Yes |
| Linksys | Linksys | MX8500 | Advanced LNE | GigE LAN(4), 5 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 13.00 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|----------------|--------------|---|-------------------------------|------------------------|
| Linksys | Linksys | MX6200 | Advanced LNE | GigE LAN(2), 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 10.50 | Yes |
| Linksys | Linksys | MBE7000 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 11.70 | Yes |
| Netgear | NETGEAR | C6230-100NAS | IAD D3.0 | D3 above 4x4(3), GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 2, PCIe Gen 1 & 2 Base(2) | 12.29 | No |
| Netgear | NETGEAR | C6250-1AZNAS | IAD D3.0 | D3 above 4x4(3), GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, USB 2, PCIe Gen 1 & 2 Base(2) | 14.60 | No |
| Netgear | NETGEAR | C7000-100NAS | IAD D3.0 | D3 above 4x4(5), GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, PCIe Gen 1 & 2 Base(2) | 18.13 | No |
| Netgear | NETGEAR | C7100V-100NAS | IAD D3.0 | D3 above 4x4(5), GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, FXS(2), USB 2(2), PCIe Gen 1 & 2 Base(2) | 16.88 | No |
| Netgear | NETGEAR | CAX305-100NAS | IAD D3.1 | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 12.72 | Yes |
| Netgear | NETGEAR | CAX80-100NAR | IAD D3.1 | GigE LAN(4), 2.5 GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2) | 10.56 | Yes |
| Netgear | NETGEAR | CBR750-100NAS | IAD D3.1 | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM | 16.44 | Yes |
| Netgear | NETGEAR | CM500-100NAS | Basic D3.0 | D3 above 4x4(3), GigE LAN | 8.22 | No |
| Netgear | NETGEAR | CM700-100NAS | Basic D3.0 | D3 above 4x4(7), GigE LAN | 8.67 | Yes |
| Netgear | NETGEAR | CM1000-100NAS | Basic D3.1 | GigE LAN, AP 5K-10K DMIPS | 7.24 | Yes |
| Netgear | NETGEAR | CM1100-100NAS | Basic D3.1 | GigE LAN | 7.31 | Yes |
| Netgear | NETGEAR | CM1200-100NAS | Basic D3.1 | GigE LAN(4) | 7.32 | Yes |
| Netgear | NETGEAR | CM2000-100NAS | Basic D3.1 | 2.5 GigE LAN Active | 7.80 | Yes |
| Netgear | NETGEAR | CM2050V-100NAS | Basic D3.1 | 2.5 GigE LAN Active, FXS(2) | 7.80 | Yes |
| Netgear | NETGEAR | EAX11-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 4.90 | Yes |
| Netgear | NETGEAR | EAX12-100NAR | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 4.90 | Yes |
| Netgear | NETGEAR | EAX14-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 4.90 | Yes |
| Netgear | NETGEAR | EAX15-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 4.90 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|----------------|--------------|--|-------------------------------|------------------------|
| Netgear | NETGEAR | EAX18-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 5.20 | Yes |
| Netgear | NETGEAR | EAX20-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 5.20 | Yes |
| Netgear | NETGEAR | EAX80-100NAR | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3 | 7.49 | Yes |
| Netgear | NETGEAR | EAX80-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3 | 7.49 | Yes |
| Netgear | NETGEAR | EX2800-1AZNAS | Advanced LNE | 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM | 2.38 | Yes |
| Netgear | NETGEAR | EX3110-100NAS | Advanced LNE | 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM | 2.38 | Yes |
| Netgear | NETGEAR | EX3700-100NAS | Advanced LNE | GigE LAN, 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP | 2.85 | Yes |
| Netgear | NETGEAR | EX5000-1AZNAS | Advanced LNE | 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM | 2.38 | Yes |
| Netgear | NETGEAR | EX6110-100NAS | Advanced LNE | 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM | 2.38 | Yes |
| Netgear | NETGEAR | EX6120-100NAS | Advanced LNE | GigE LAN, 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP | 2.85 | Yes |
| Netgear | NETGEAR | EX6150-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP | 4.20 | Yes |
| Netgear | NETGEAR | EX6250-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM | 4.60 | Yes |
| Netgear | NETGEAR | EX6400-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM | 4.60 | Yes |
| Netgear | NETGEAR | EX7300-100NAR | Advanced LNE | GigE LAN, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2) | 4.60 | Yes |
| Netgear | NETGEAR | EX7700-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz Radio (20, 40, 80 MHz) HP | 4.69 | Yes |
| Netgear | NETGEAR | EX8000-100NAR | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM | 7.23 | Yes |
| Netgear | NETGEAR | GS105E-200NAS | Basic LNE | GigE LAN(5) | 0.74 | Yes |
| Netgear | NETGEAR | GS105NA | Basic LNE | GigE LAN(5) | 0.92 | Yes |
| Netgear | NETGEAR | GS108-400NAS | Basic LNE | GigE LAN(8) | 2.10 | Yes |
| Netgear | NETGEAR | GS108E-300NAS | Basic LNE | GigE LAN(8) | 2.20 | Yes |
| Netgear | NETGEAR | GS108LP-100NAS | Basic LNE | GigE LAN(8) | 3.40 | No |
| Netgear | NETGEAR | GS108PE-300NAS | Basic LNE | GigE LAN(8) | 2.47 | Yes |
| Netgear | NETGEAR | GS108PP-100NAS | Basic LNE | GigE LAN(8) | 2.50 | Yes |
| Netgear | NETGEAR | GS108T-200NAS | Advanced LNE | GigE LAN(8) | 5.30 | No |
| Netgear | NETGEAR | GS108T-300NAS | Advanced LNE | GigE LAN(8) | 4.40 | Yes |
| Netgear | NETGEAR | GS305-300PAS | Basic LNE | GigE LAN(5) | 0.61 | Yes |
| Netgear | NETGEAR | GS305E-100NAS | Basic LNE | GigE LAN(5) | 1.16 | Yes |
| Netgear | NETGEAR | GS305EP-100NAS | Basic LNE | GigE LAN(5) | 2.78 | No |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|-----------------|--------------|--|-------------------------------|------------------------|
| Netgear | NETGEAR | GS308EPP-100NAS | Basic LNE | GigE LAN(5) | 3.50 | No |
| Netgear | NETGEAR | GS305P-200NAS | Basic LNE | GigE LAN(5) | 2.00 | Yes |
| Netgear | NETGEAR | GS305P-300NAS | Basic LNE | GigE LAN(5) | 1.60 | Yes |
| Netgear | NETGEAR | GS305PP-100NAS | Basic LNE | GigE LAN(5) | 3.24 | No |
| Netgear | NETGEAR | GS305PP-300NAS | Basic LNE | GigE LAN(5) | 1.72 | Yes |
| Netgear | NETGEAR | GS308-300PAS | Basic LNE | GigE LAN(8) | 0.60 | Yes |
| Netgear | NETGEAR | GS308E-100NAS | Basic LNE | GigE LAN(8) | 2.00 | Yes |
| Netgear | NETGEAR | GS308EP-100NAS | Basic LNE | GigE LAN(8) | 4.56 | No |
| Netgear | NETGEAR | GS308EPP-100NAS | Basic LNE | GigE LAN(5) | 3.50 | No |
| Netgear | NETGEAR | GS308PP-100NAS | Basic LNE | GigE LAN(8) | 2.50 | Yes |
| Netgear | NETGEAR | GS605NA | Basic LNE | GigE LAN(5) | 1.14 | Yes |
| Netgear | NETGEAR | LAX20-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 2 | 5.42 | Yes |
| Netgear | NETGEAR | LM1200-100NAS | Basic LNE | GigE LAN(2) | 1.70 | Yes |
| Netgear | NETGEAR | LM1300-100NAS | Basic LNE | GigE LAN(2) | 1.70 | Yes |
| Netgear | NETGEAR | MK63-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 3.23 | Yes |
| Netgear | NETGEAR | MK72-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 5.30 | Yes |
| Netgear | NETGEAR | MK83-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM | 6.70 | Yes |
| Netgear | NETGEAR | MK935-100NAS | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM | 8.37 | Yes |
| Netgear | NETGEAR | MR1100-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 3, BATTERY | 2.30 | Yes |
| Netgear | NETGEAR | MR6110-1A1NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 3, BATTERY | 3.40 | Yes |
| Netgear | NETGEAR | MR6150-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 3, BATTERY | 6.90 | Yes |
| Netgear | NETGEAR | MR6400-1DNNAS | Advanced LNE | GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 3, BATTERY | 2.06 | Yes |
| Netgear | NETGEAR | MR6500-1A1NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 3, BATTERY | 2.28 | Yes |
| Netgear | NETGEAR | MR6520G-111PAS | Advanced LNE | 2.5 GigE LAN Active, 5 GHz Radio (160 MHz) LP, 6 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 3, BATTERY | 2.88 | Yes |
| Netgear | NETGEAR | MR6550-100PAS | Advanced LNE | 2.5 GigE LAN Active, 5 GHz Radio (160 MHz) LP, 6 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 3, BATTERY | 2.88 | Yes |
| Netgear | NETGEAR | MS60-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 2.91 | Yes |
| Netgear | NETGEAR | MS70-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 4.00 | Yes |
| Netgear | NETGEAR | MS80-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM | 6.20 | Yes |
| Netgear | NETGEAR | MS90-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM | 6.44 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|-----------------|--------------|--|-------------------------------|------------------------|
| Netgear | NETGEAR | M5105-100NAS | Basic LNE | 2.5 GigE LAN Active(3), 2.5 GigE LAN(2) | 5.80 | Yes |
| Netgear | NETGEAR | M5108EUP-100NAS | Basic LNE | 2.5 GigE LAN Active(4), 2.5 GigE LAN(4) | 8.23 | Yes |
| Netgear | NETGEAR | M5108UP-100NAS | Basic LNE | 2.5 GigE LAN Active(4), 2.5 GigE LAN(4) | 8.23 | Yes |
| Netgear | NETGEAR | M5305-100NAS | Basic LNE | 2.5 GigE LAN Active(3), 2.5 GigE LAN(2) | 5.90 | Yes |
| Netgear | NETGEAR | PL1000-100PAS | Basic LNE | GigE LAN | 2.20 | No |
| Netgear | NETGEAR | PL1200-100PAS | Basic LNE | GigE LAN | 6.80 | No |
| Netgear | NETGEAR | PLP1200-100PAS | Basic LNE | GigE LAN | 2.96 | No |
| Netgear | NETGEAR | PLP2000-100PAS | Basic LNE | GigE LAN(2) | 4.62 | No |
| Netgear | NETGEAR | PLW1000-100NAS | Advanced LNE | GigE LAN, 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP | 4.73 | Yes |
| Netgear | NETGEAR | PR60X-100NAS | Basic LNE | 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active | 7.95 | Yes |
| Netgear | NETGEAR | PR460X-111NAS | Basic LNE | 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active | 7.95 | Yes |
| Netgear | NETGEAR | R6020-100NAS | Advanced LNE | GigE LAN(5), 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP | 2.81 | Yes |
| Netgear | NETGEAR | R6080-100NAS | Advanced LNE | GigE LAN(5), 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP | 2.81 | Yes |
| Netgear | NETGEAR | R6230-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, USB 2 | 4.86 | Yes |
| Netgear | NETGEAR | R6350-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), USB 2 | 5.30 | Yes |
| Netgear | NETGEAR | R6400-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, USB 2, USB 3 | 9.40 | No |
| Netgear | NETGEAR | R6700-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, USB 3 | 9.40 | No |
| Netgear | NETGEAR | R6700AXS-1AZNAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 4.88 | Yes |
| Netgear | NETGEAR | R6850-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), USB 2 | 5.30 | Yes |
| Netgear | NETGEAR | R6900-200NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3 | 6.34 | Yes |
| Netgear | NETGEAR | R7000-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, USB 3 | 9.30 | No |
| Netgear | NETGEAR | R7000P-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2) | 9.30 | No |
| Netgear | NETGEAR | R7450-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3 | 6.34 | Yes |
| Netgear | NETGEAR | R8000P-100NAR | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3 | 12.81 | No |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|---------------|--------------|--|-------------------------------|------------------------|
| Netgear | NETGEAR | RAX5-100PAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 5.25 | Yes |
| Netgear | NETGEAR | RAX10-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 4.88 | Yes |
| Netgear | NETGEAR | RAX20-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 3 | 5.18 | Yes |
| Netgear | NETGEAR | RAX29-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3 | 4.82 | Yes |
| Netgear | NETGEAR | RAX30-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3 | 4.82 | Yes |
| Netgear | NETGEAR | RAX35-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 4.90 | Yes |
| Netgear | NETGEAR | RAX36S-100PAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 4.88 | Yes |
| Netgear | NETGEAR | RAX38-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 4.90 | Yes |
| Netgear | NETGEAR | RAX40-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 4.90 | Yes |
| Netgear | NETGEAR | RAX41-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 5.10 | Yes |
| Netgear | NETGEAR | RAX42-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 5.20 | Yes |
| Netgear | NETGEAR | RAX43-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.20 | Yes |
| Netgear | NETGEAR | RAX45-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 5.50 | Yes |
| Netgear | NETGEAR | RAX49S-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 7.40 | Yes |
| Netgear | NETGEAR | RAX50-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 5.50 | Yes |
| Netgear | NETGEAR | RAX54S-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 5.40 | Yes |
| Netgear | NETGEAR | RAX70-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 6.50 | Yes |
| Netgear | NETGEAR | RAX120-100NAS | Advanced LNE | GigE LAN(5), 5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 3(2) | 12.69 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|----------------|--------------|--|-------------------------------|------------------------|
| Netgear | NETGEAR | RAXE300-100NAS | Advanced LNE | GigE LAN(5), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 8.42 | Yes |
| Netgear | NETGEAR | RAXE500-100NAS | Advanced LNE | GigE LAN(5), 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3(2), PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 16.59 | Yes |
| Netgear | NETGEAR | RBE970-100NAS | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM | 18.90 | Yes |
| Netgear | NETGEAR | RBE972S-100NAS | Advanced LNE | 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM | 23.18 | Yes |
| Netgear | NETGEAR | RBK13-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 5.71 | Yes |
| Netgear | NETGEAR | RBK23-100NAR | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz Radio (20, 40, 80 MHz) HP | 4.71 | Yes |
| Netgear | NETGEAR | RBK43-200NAR | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM | 6.66 | Yes |
| Netgear | NETGEAR | RBK50-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 4.68 | Yes |
| Netgear | NETGEAR | RBK752-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM | 8.10 | Yes |
| Netgear | NETGEAR | RBK762S-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2) | 7.86 | Yes |
| Netgear | NETGEAR | RBK843S-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM | 8.29 | Yes |
| Netgear | NETGEAR | RBK852-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM | 11.20 | Yes |
| Netgear | NETGEAR | RBK862S-100NAS | Advanced LNE | GigE LAN(4), 10 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM | 12.03 | Yes |
| Netgear | NETGEAR | RBKE962-100NAS | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 10 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 12.16 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|-----------------|--------------|---|-------------------------------|------------------------|
| Netgear | NETGEAR | RBS10-100NAS | Advanced LNE | 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 4.32 | Yes |
| Netgear | NETGEAR | RBS50-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, PCIe Gen 1 & 2 Base | 7.33 | Yes |
| Netgear | NETGEAR | RBS750-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM | 8.50 | Yes |
| Netgear | NETGEAR | RBS760-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2) | 7.20 | Yes |
| Netgear | NETGEAR | RBS850-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM | 10.10 | Yes |
| Netgear | NETGEAR | RBS860-100NAS | Advanced LNE | GigE LAN(4), 10 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM | 10.30 | Yes |
| Netgear | NETGEAR | RBSE960-100NAS | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 9.35 | Yes |
| Netgear | NETGEAR | RS700S-100NAS | Advanced LNE | GigE LAN(4), 10 GigE LAN Active(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3 | 15.10 | Yes |
| Netgear | NETGEAR | WAX202B-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2) | 4.93 | Yes |
| Netgear | NETGEAR | WAX204-100NAS | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 4.60 | Yes |
| Netgear | NETGEAR | WAX214PA-100NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, PCIe Gen 3 Base | 5.10 | Yes |
| Netgear | NETGEAR | WAX214PA-200NAS | Advanced LNE | GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 4.83 | Yes |
| Netgear | NETGEAR | WAX218-100NAS | Advanced LNE | 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 8.00 | No |
| Netgear | NETGEAR | WAX220PA-100NAS | Advanced LNE | 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP, 802.11n 256 QAM | 4.50 | Yes |
| Netgear | NETGEAR | WAX610PA-100NAS | Advanced LNE | 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 5.40 | Yes |
| Netgear | NETGEAR | WAX615PA-100NAS | Advanced LNE | 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.30 | Yes |
| Netgear | NETGEAR | WAX618-111NAS | Advanced LNE | 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.30 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|-----------------|--------------|--|-------------------------------|------------------------|
| Netgear | NETGEAR | WAX620PA-100NAS | Advanced LNE | 2.5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 8.00 | Yes |
| Netgear | NETGEAR | WAX625PA-100NAS | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2) | 6.90 | Yes |
| Netgear | NETGEAR | WAX628-111NAS | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2) | 6.90 | Yes |
| Netgear | NETGEAR | WAX630-100NAS | Advanced LNE | 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 9.50 | Yes |
| Netgear | NETGEAR | WAX630EP-100NAS | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 10.88 | Yes |
| Netgear | NETGEAR | WAX630PA-100NAS | Advanced LNE | 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 9.50 | Yes |
| Netgear | NETGEAR | WAX638E-111NAS | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 10.88 | Yes |
| Netgear | NETGEAR | XR500-100NAR | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2) | 9.25 | Yes |
| Netgear | NETGEAR | XR1000-100NAS | Advanced LNE | GigE LAN(5), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 5.50 | Yes |
| Netgear | NETGEAR | XS505M-100NAS | Basic LNE | 10 GigE LAN Active(3), 10 GigE LAN(2) | 8.54 | Yes |
| Netgear | NETGEAR | XS508M-100NAS | Basic LNE | 10 GigE LAN Active(4), 10 GigE LAN(4) | 17.33 | Yes |
| Netgear | NETGEAR | SXR30-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 5.80 | Yes |
| Netgear | NETGEAR | SXK30-100NAS | Advanced LNE | GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM | 6.00 | Yes |
| Netgear | NETGEAR | SXK50B3-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2) | 8.40 | Yes |
| Netgear | NETGEAR | SXK50B3-100NAS | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2) | 8.40 | Yes |
| Netgear | NETGEAR | SXK80B4-100NAS | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(3) | 12.90 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|-------------------|--------------|---|-------------------------------|------------------------|
| Netgear | NETGEAR | SXK80B4-100NAS | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM, PCIe Gen 1 & 2 Base(3) | 12.90 | Yes |
| Netgear | NETGEAR | GS108X-100NAS | Basic LNE | GigE LAN(8) | 3.05 | Yes |
| Netgear | NETGEAR | M5108TUP-100NAS | Basic LNE | 2.5 GigE LAN Active(4), 2.5 GigE LAN(4) | 12.73 | Yes |
| Netgear | NETGEAR | X5508TM-100NAS | Basic LNE | 10 GigE LAN Active(4), 10 GigE LAN(4) | 17.39 | Yes |
| Netgear | NETGEAR | NBK752-100NAS | Advanced LNE | GigE LAN(3), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 10.10 | Yes |
| Plume | Plume | PP203X | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base | 6.50 | Yes |
| Plume | Plume | PP403Z | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base | 7.50 | Yes |
| Plume | Plume | PP603X | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 10.20 | Yes |
| Plume | Plume | PP523Z | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base | 7.70 | Yes |
| Plume | Plume | PP513Z | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base | 8.20 | Yes |
| TP-Link | TP-Link | Archer A54 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, PCIe Gen 1 & 2 Base | 2.86 | Yes |
| TP-Link | TP-Link | Archer AX3000 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 6.81 | Yes |
| TP-Link | TP-Link | Archer AX1800 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 2, PCIe Gen 1 & 2 Base | 6.61 | Yes |
| TP-Link | TP-Link | Archer AX4400 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 7.15 | Yes |
| TP-Link | TP-Link | Archer AX3000 Pro | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 6.85 | Yes |
| TP-Link | TP-Link | Archer AX1500 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 5.20 | Yes |
| TP-Link | TP-Link | Archer C4000 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 13.23 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|-----------------|--------------|---|-------------------------------|------------------------|
| TP-Link | TP-Link | Archer C20 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, PCIe Gen 1 & 2 Base | 2.53 | Yes |
| TP-Link | TP-Link | Archer AXE300 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 3, Bluetooth, PCIe Gen 1 & 2 Base(2), PCIe Gen 3 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 17.83 | Yes |
| TP-Link | TP-Link | Archer AX11000 | Advanced LNE | GigE LAN(8), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 3(2), Bluetooth, PCIe Gen 1 & 2 Base(3), PCIe Gen 1 & 2 Addl Lane | 14.03 | Yes |
| TP-Link | TP-Link | Archer AX6000 | Advanced LNE | GigE LAN(8), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3(2), Bluetooth, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane | 12.29 | Yes |
| TP-Link | TP-Link | Archer AX10000 | Advanced LNE | GigE LAN(8), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 3(2), Bluetooth, PCIe Gen 1 & 2 Base(3), PCIe Gen 1 & 2 Addl Lane | 14.05 | Yes |
| TP-Link | TP-Link | Archer AX21 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 2, PCIe Gen 1 & 2 Base | 6.62 | Yes |
| TP-Link | TP-Link | Archer GX90 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 10.03 | Yes |
| TP-Link | TP-Link | Archer AX10 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 5.22 | Yes |
| TP-Link | TP-Link | Archer AX55 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base | 6.80 | Yes |
| TP-Link | TP-Link | Archer AX75 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 7.85 | Yes |
| TP-Link | TP-Link | Archer AX90 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 10.25 | Yes |
| TP-Link | TP-Link | Archer AX20 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM, USB 2, PCIe Gen 1 & 2 Base | 6.64 | Yes |
| TP-Link | TP-Link | Archer AX55 Pro | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.5 GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 2, AP 5K-10K DMIPS | 7.11 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|-------------------|--------------|---|-------------------------------|------------------------|
| TP-Link | TP-Link | Archer AX5400 Pro | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 7.60 | Yes |
| TP-Link | TP-Link | Archer AX72 Pro | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 7.62 | Yes |
| TP-Link | TP-Link | Archer AX3200 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 9.51 | Yes |
| TP-Link | TP-Link | Archer C90 | Advanced LNE | 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 2, PCIe Gen 1 & 2 Base | 4.91 | Yes |
| TP-Link | TP-Link | Archer BE900 | Advanced LNE | GigE LAN, 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(4), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base, PCIe Gen 3 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 26.95 | Yes |
| TP-Link | TP-Link | Archer BE800 | Advanced LNE | 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 3 Base(3), PCIe Gen 3 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 16.83 | Yes |
| TP-Link | TP-Link | Archer C50 | Advanced LNE | Fast E LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 3.25 | Yes |
| TP-Link | TP-Link | Archer AX1450 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 5.23 | Yes |
| TP-Link | TP-Link | Archer C1200 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, USB 2, PCIe Gen 1 & 2 Base | 7.08 | Yes |
| TP-Link | TP-Link | Archer C2600 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3(2), PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 9.12 | Yes |
| TP-Link | TP-Link | Archer BE9300 | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, 2.5 GigE LAN, 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 11.80 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|----------------|--------------|---|-------------------------------|------------------------|
| TP-Link | TP-Link | Archer BE550 | Advanced LNE | 2.5 GigE LAN Active(3), 2.5 GigE LAN(2), 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 3 Base, PCIe Gen 3 Add'l Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 12.12 | Yes |
| TP-Link | TP-Link | Archer C3150 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS | 11.56 | No |
| TP-Link | TP-Link | Archer BE805 | Advanced LNE | GigE LAN(4), 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3(2), PCIe Gen 3 Base(2), PCIe Gen 3 Add'l Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 15.12 | Yes |
| TP-Link | TP-Link | Archer AX73 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 7.14 | Yes |
| TP-Link | TP-Link | Archer AXE5400 | Advanced LNE | GigE LAN(5), 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 7.84 | Yes |
| TP-Link | TP-Link | Archer AXE75 | Advanced LNE | GigE LAN(5), 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 7.84 | Yes |
| TP-Link | TP-Link | Archer AXE95 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 9.60 | Yes |
| TP-Link | TP-Link | Archer A6 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM | 3.56 | Yes |
| TP-Link | TP-Link | Archer A7 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, USB 2, PCIe Gen 1 & 2 Base | 4.14 | Yes |
| TP-Link | TP-Link | Archer A8 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, 802.11n 256 QAM | 4.08 | Yes |
| TP-Link | TP-Link | Archer A9 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, USB 2, PCIe Gen 1 & 2 Base | 4.91 | Yes |
| TP-Link | TP-Link | Archer AC1900 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, 802.11n 256 QAM | 4.08 | Yes |
| TP-Link | TP-Link | Archer AX80 | Advanced LNE | GigE LAN(4), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, AP Add'l Over 10K DMIPS | 7.48 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|----------------------|--------------|---|-------------------------------|------------------------|
| TP-Link | TP-Link | Archer C1900 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 10.59 | No |
| TP-Link | TP-Link | Archer C2300 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP, 5 GHz Radio (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, USB 3, PCIe Gen 1 & 2 Base(2) | 8.68 | Yes |
| TP-Link | TP-Link | Archer C54 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 2.86 | Yes |
| TP-Link | TP-Link | Archer C59 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM | 4.75 | Yes |
| TP-Link | TP-Link | Archer C6 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, 802.11n 256 QAM | 3.56 | Yes |
| TP-Link | TP-Link | Archer C7 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, USB 2, PCIe Gen 1 & 2 Base | 4.04 | Yes |
| TP-Link | TP-Link | Archer C80 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, 802.11n 256 QAM | 4.08 | Yes |
| TP-Link | TP-Link | Archer C9 | Advanced LNE | GigE LAN(5), 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP, 802.11n 256 QAM, USB 2, USB 3, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS | 10.59 | No |
| TP-Link | TP-Link | Deco W7200(2-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 6.35 | Yes |
| TP-Link | TP-Link | Deco X3600(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 6.31 | Yes |
| TP-Link | TP-Link | Deco X55 Pro(1-pack) | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS | 6.97 | Yes |
| TP-Link | TP-Link | Deco X55 Pro(3-pack) | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, AP 5K-10K DMIPS | 6.97 | Yes |
| TP-Link | TP-Link | Deco X5700(2-pack) | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.46 | Yes |
| TP-Link | TP-Link | Deco X68(2-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 6.31 | Yes |
| TP-Link | TP-Link | Deco X90(1-pack) | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.46 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|--------------------------|--------------|---|-------------------------------|------------------------|
| TP-Link | TP-Link | Deco X90(2-pack) | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.46 | Yes |
| TP-Link | TP-Link | Deco X95(1-pack) | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.71 | Yes |
| TP-Link | TP-Link | Deco X95(2-pack) | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP(2), 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 8.71 | Yes |
| TP-Link | TP-Link | Deco BE16000(3-pack) | Advanced LNE | 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP(2), 802.11n 256 QAM, USB 2, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 12.59 | Yes |
| TP-Link | TP-Link | Deco M9 Plus(2-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1 & 2 Base | 5.75 | Yes |
| TP-Link | TP-Link | Deco P9(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base | 6.60 | Yes |
| TP-Link | TP-Link | Deco PX50(3-pack) | Advanced LNE | GigE LAN(3), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 9.78 | No |
| TP-Link | TP-Link | Deco W4500(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, PCIe Gen 1 & 2 Base | 4.38 | Yes |
| TP-Link | TP-Link | Deco W6000(2-pack) | Advanced LNE | GigE LAN(3), 5 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 7.62 | No |
| TP-Link | TP-Link | Deco WE10800(2-pack) | Advanced LNE | GigE LAN(3), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 8.17 | Yes |
| TP-Link | TP-Link | Deco X25/X50-Outdoor Kit | Advanced LNE | GigE LAN(2), 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.48 | Yes |
| TP-Link | TP-Link | Deco X4300 Pro(3-pack) | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 8.20 | Yes |
| TP-Link | TP-Link | Deco X50(1-pack) | Advanced LNE | GigE LAN(3), 5 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.96 | Yes |
| TP-Link | TP-Link | Deco X5000(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 7.62 | No |
| TP-Link | TP-Link | Deco X50-Outdoor(1-pack) | Advanced LNE | GigE LAN(2), 5 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 6.01 | Yes |
| TP-Link | TP-Link | Deco X50-PoE(1-pack) | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 5 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 7.39 | Yes |
| TP-Link | TP-Link | Deco X50-PoE(3-pack) | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 5 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 7.39 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|------------------------|--------------|--|-------------------------------|------------------------|
| TP-Link | TP-Link | Deco X5400 Pro(3-pack) | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 8.20 | Yes |
| TP-Link | TP-Link | Deco X55(1-pack) | Advanced LNE | GigE LAN(3), 5 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.96 | Yes |
| TP-Link | TP-Link | Deco X55(2-pack) | Advanced LNE | GigE LAN(3), 5 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.96 | Yes |
| TP-Link | TP-Link | Deco X55(3-pack) | Advanced LNE | GigE LAN(3), 5 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.96 | Yes |
| TP-Link | TP-Link | Deco X60(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 7.62 | No |
| TP-Link | TP-Link | Deco XE200(1-pack) | Advanced LNE | GigE LAN(2), 10 GigE LAN Active, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 3 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 15.25 | Yes |
| TP-Link | TP-Link | Deco XE200(2-pack) | Advanced LNE | GigE LAN(2), 10 GigE LAN Active, 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 802.11n 256 QAM, PCIe Gen 3 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 15.25 | Yes |
| TP-Link | TP-Link | Deco XE75 Pro(1-pack) | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 8.47 | Yes |
| TP-Link | TP-Link | Deco XE75 Pro(2-pack) | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 8.47 | Yes |
| TP-Link | TP-Link | Deco XE75 Pro(3-pack) | Advanced LNE | GigE LAN(2), 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 8.47 | Yes |
| TP-Link | TP-Link | Deco XE75(1-pack) | Advanced LNE | GigE LAN(3), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 8.17 | Yes |
| TP-Link | TP-Link | Deco XE75(2-pack) | Advanced LNE | GigE LAN(3), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 8.17 | Yes |
| TP-Link | TP-Link | Deco XE75(3-pack) | Advanced LNE | GigE LAN(3), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane | 8.17 | Yes |
| TP-Link | TP-Link | Deco X20(1-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.48 | Yes |
| TP-Link | TP-Link | Deco W3600(2-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.48 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|---------------------|--------------|--|-------------------------------|------------------------|
| TP-Link | TP-Link | Deco X20(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.48 | Yes |
| TP-Link | TP-Link | Deco X20(2-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.48 | Yes |
| TP-Link | TP-Link | Deco XE5300(3-pack) | Advanced LNE | GigE LAN(3), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Add'l Lane | 8.17 | Yes |
| TP-Link | TP-Link | Deco HC4(1-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base(2) | 4.05 | Yes |
| TP-Link | TP-Link | Deco M3(3-pack) | Advanced LNE | Fast E LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base | 4.00 | Yes |
| TP-Link | TP-Link | Deco E3(2-pack) | Advanced LNE | Fast E LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base | 4.00 | Yes |
| TP-Link | TP-Link | Deco BE63(1-pack) | Advanced LNE | 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 3 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 11.18 | Yes |
| TP-Link | TP-Link | Deco BE63(2-pack) | Advanced LNE | 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 3 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 11.18 | Yes |
| TP-Link | TP-Link | Deco BE63(3-pack) | Advanced LNE | 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3, PCIe Gen 3 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 11.18 | Yes |
| TP-Link | TP-Link | Deco BE85(2-pack) | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 3 Base, PCIe Gen 3 Add'l Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 18.90 | Yes |
| TP-Link | TP-Link | Deco BE85(3-pack) | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 3 Base, PCIe Gen 3 Add'l Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 18.90 | Yes |
| TP-Link | TP-Link | Deco BE95(1-pack) | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP(2), 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 3 Base, PCIe Gen 3 Add'l Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 22.32 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|-----------------------------------|--------------|--|-------------------------------|------------------------|
| TP-Link | TP-Link | Deco BE95(2-pack) | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP(2), 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 3 Base, PCIe Gen 3 Add'l Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 22.32 | Yes |
| TP-Link | TP-Link | Deco BE95(3-pack) | Advanced LNE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP(2), 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, USB 3, PCIe Gen 3 Base, PCIe Gen 3 Add'l Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 22.32 | Yes |
| TP-Link | TP-Link | Deco M4(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base(2) | 4.05 | Yes |
| TP-Link | TP-Link | Deco M5(1-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 4.31 | Yes |
| TP-Link | TP-Link | Deco M5(2-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 4.31 | Yes |
| TP-Link | TP-Link | Deco M5(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS | 4.31 | Yes |
| TP-Link | TP-Link | Deco S4(1-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base(2) | 4.05 | Yes |
| TP-Link | TP-Link | Deco S4(2-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base(2) | 4.05 | Yes |
| TP-Link | TP-Link | Deco S4(3-pack) | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base(2) | 4.05 | Yes |
| TP-Link | TP-Link | Deco W2400(2-pack) | Advanced LNE | Fast E LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, PCIe Gen 1 & 2 Base | 4.00 | Yes |
| TP-Link | TP-Link | Deco X25(3-pack) | Advanced LNE | GigE LAN(2), 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base | 5.48 | Yes |
| Verizon | Actiontec | GT784WNV | IAD ADSL2+ | Fast E LAN(4), 2.4 GHz Radio LP, USB 2 | 6.09 | No |
| Verizon | Dlink | DGS-1005G | Basic LNE | GigE LAN(5) | 1.56 | Yes |
| Verizon | Arcadyan | Fios Extender | Advanced LNE | GigE LAN(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(6), 5 GHz Radio (20, 40, 80 MHz) HP(2), 802.11n 256 QAM, MoCA, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS | 10.12 | Yes |
| Verizon | Verizon | Verizon Router (CR1000A) | IAD 10 GigE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, MoCA, USB 3, PCIe Gen 3 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2) | 22.45 | Yes |
| Verizon | Verizon | MoCA Ethernet Adapter (Multiport) | Advanced LNE | GigE LAN(3), 2.5 GigE LAN Active, MoCA | 3.97 | Yes |
| Verizon | Verizon | Wi-Fi Extender Mini (CME1000) | Advanced LNE | 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP | 8.27 | Yes |

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2023 (Cont.)

| Signatory | Manufacturer | Model Number | Base Type | Claimed Allowances | Reported Ready Mode Power (W) | Meets Tier 3 VA Levels |
|-----------|--------------|------------------------------------|--------------|---|-------------------------------|------------------------|
| Verizon | Verizon | Verizon Router (CR1000B) | IAD 10 GigE | 2.5 GigE LAN Active, 2.5 GigE LAN, 10 GigE LAN Active, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, MoCA, USB 3, PCIe Gen 3 Base(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(5) | 26.87 | Yes |
| Verizon | Verizon | Verizon Wi-Fi Extender (CE1000A) | Advanced LNE | GigE LAN, 2.5 GigE LAN Active, 5 GHz Radio (20, 40, 80 MHz) LP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP(2), 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 802.11n 256 QAM, MoCA, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS | 12.78 | Yes |
| Verizon | Verizon | MoCA Ethernet Adapter (Singleport) | Advanced LNE | 2.5 GigE LAN Active, MoCA | 2.31 | Yes |

Tables 4 and 5 describe the allowances established by the Voluntary Agreement that are applicable for 2023.

Table 4: Voluntary Agreement Allowance Descriptions

| Description | Descriptor | Allowance (watts) |
|---|---------------------------------|-------------------|
| Base Allowance: IAD Devices (by WAN interface) | | |
| ADSL2plus | IAD ADSL2+ | 3.7 |
| VDSL2 (8, 12a, 17a, but not 30a) | IAD VDSL2 | 4.5 |
| VDSL2 (all above profiles including 30a) | IAD VDSL2 (30a) | 6.0 |
| VDSL2 (all above profiles including 35b) | IAD VDSL2 (35b) | 6.0 |
| DOCSIS 3.0 basic configuration (4x4) | IAD D3.0 | 4.5 |
| DOCSIS 3.1 No FDX | IAD D3.1 | 14.0 |
| MoCA 1.1/2.0 | IAD MoCA | 3.7 |
| Gigabit Ethernet | IAD GigE | 3.7 |
| 2.5 GB Ethernet | IAD 2.5 GigE | 4.5 |
| 5 GB Ethernet | IAD 5 GigE | 5.0 |
| 10 GB Ethernet | IAD 10 GigE | 5.5 |
| SFP with 1000BaseLX/SX | IAD SFP 1000BaseLX/SX | 4.0 |
| SFP with GPON | IAD SFP GPON | 5.0 |
| 10G EPON | IAD 10G EPON | 13.0 |
| On-board Fiber WAN (without SFP) | IAD Fiber WAN | 5.0 |
| 10GB PON WAN (with SFP) | IAD 10GB PON | 13.0 |
| Base Allowance: Broadband Modems (by WAN Interface) | | |
| ADSL2plus | Basic ADSL2+ | 2.2 |
| VDSL2 (8, 12a, 17a, but not 30a) | Basic VDSL2 | 3.0 |
| VDSL2 (all above profiles including 30a) | Basic VDSL2 (30a) | 4.5 |
| DOCSIS 3.0 basic configuration (4x4) | Basic D3.0 | 3.0 |
| DOCSIS 3.1 No FDX | Basic D3.1 | 11.0 |
| G.fast | G.fast | 4.2 |
| 10G EPON | Basic 10G EPON | 10.0 |
| Base Allowance: LNE | | |
| LNE other than Advanced LNE | Basic LNE | 1.5 |
| Advanced LNE | Advanced LNE | 3.5 |
| Adders for Additional Backup WAN Interface | | |
| Gigabit Ethernet WAN | GigE Backup WAN | 0.4 |
| SFP Not Present | SFP Backup WAN Not Present | 0.7 |
| SFP Present (1000BaseLX/SX or GPON) | SFP Backup WAN Present | 2.0 |
| VDSL2 (8, 12a, 17a, but not 30a) | VDSL2 Backup WAN | 0.7 |
| Adders for Simultaneous Additional WAN Interface | | |
| VDSL2 (8, 12a, 17a, but not 30a) | VDSL2 Simul WAN | 3.2 |
| VDSL (profile 30a) | VDSL2 (30a) Simul WAN | 4.7 |
| DOCSIS 3.0 additional power allowance for each additional 4 downstream channels | D3 above 4x4 | 1.0 |
| Adders for LAN interfaces and Additional Functionality | | |
| 1 Fast Ethernet port | Fast E LAN | 0.2 |
| 1 Gigabit Ethernet port | GigE LAN | 0.2 |
| 2.5 Gigabit Ethernet port connected (active link) | 2.5 GigE LAN Active | 2.5 |
| 2.5 Gigabit Ethernet port connected (active link) | 2.5 GigE LAN | 0.8 |
| 5 Gigabit Ethernet port connected (active link) | 5 GigE LAN Active | 2.5 |
| 5 Gigabit Ethernet port not connected | 5 GigE LAN | 0.8 |
| 10 Gigabit Ethernet port connected (active link) | 10 GigE LAN Active | 3.5 |
| 10 Gigabit Ethernet port not connected | 10 GigE LAN | 1.5 |
| Wi-Fi 2.4 GHz radio with a conducted output power of less than 200 mW per chain up to 2x2 | 2.4 GHz Radio LP | 1.0 |
| Additional allowance per RF chain above 2x2 MIMO at 2.4 GHz with a conducted output power of less than 200 mW per chain | 2.4 GHz MIMO above 2x2 LP | 0.1 |
| Wi-Fi 5 GHz radio up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2 | 5 GHz Radio (20, 40, 80 MHz) LP | 1.6 |

| Description | Descriptor | Allowance (watts) |
|---|--|-------------------|
| Adders for LAN interfaces and Additional Functionality | | |
| Additional allowance per RF chain above 2x2 MIMO at 5 GHz up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain | 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP | 0.1 |
| Wi-Fi 5 GHz radio at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2 | 5 GHz Radio (160 MHz) LP | 2.0 |
| Additional allowance per RF chain above 2x2 MIMO at 5 GHz at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain | 5 GHz MIMO (160 MHz) above 2x2 LP | 0.1 |
| Wi-Fi 6 GHz radio up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2 | 6 GHz Radio (20, 40, 80 MHz) LP | 1.6 |
| Additional allowance per RF chain above 2x2 MIMO at 6 GHz up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain | 6 GHz MIMO (20, 40, 80 MHz) above 2x2 LP | 0.1 |
| Wi-Fi 6 GHz radio at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2 | 6 GHz Radio (160 MHz) LP | 2.0 |
| Additional allowance per RF chain above 2x2 MIMO at 6 GHz at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain | 6 GHz MIMO (160 MHz) above 2x2 LP | 0.1 |
| Wi-Fi 2.4 GHz radio with a conducted output power of greater than or equal to 200 mW per chain up to 2x2 | 2.4 GHz Radio HP | 1.1 |
| Additional allowance per RF chain above 2x2 MIMO at 2.4 GHz with a conducted output power of greater than or equal to 200 mW per chain | 2.4 GHz MIMO above 2x2 HP | 0.2 |
| Wi-Fi 5 GHz radio up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2 | 5 GHz Radio (20, 40, 80 MHz) HP | 2.1 |
| Additional allowance per RF chain above 2x2 MIMO at 5 GHz up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain | 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP | 0.3 |
| Wi-Fi 5 GHz radio at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2 | 5 GHz Radio (160 MHz) HP | 2.6 |
| Additional allowance per RF chain above 2x2 MIMO at 5 GHz at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain | 5 GHz MIMO (160 MHz) above 2x2 HP | 0.3 |
| Wi-Fi 6 GHz radio up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2 | 6 GHz Radio (20, 40, 80 MHz) HP | 2.1 |
| Additional allowance per RF chain above 2x2 MIMO at 6 GHz up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain | 6 GHz MIMO (20, 40, 80 MHz) above 2x2 HP | 0.3 |
| Wi-Fi 6 GHz radio at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2 | 6 GHz Radio (160 MHz) HP | 2.6 |
| Additional allowance per RF chain above 2x2 MIMO at 6 GHz at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain | 6 GHz MIMO (160 MHz) above 2x2 HP | 0.3 |
| Wi-Fi IEEE 802.11n at 2.4GHz supporting 256-QAM | 802.11n 256 QAM | 0.3 |
| HPNA | HPNA | 1.5 |
| G.hn | G.hn | 2.0 |
| MoCA 1.1/2.0 Single Channel | MoCA | 2.2 |
| FXS | FXS | 0.3 |
| DECT | DECT | 0.5 |
| USB 2.0 - no load connected | USB 2 | 0.1 |
| USB 3.0 - no load connected | USB 3 | 0.2 |
| SATA - no load connected | SATA | 0.3 |
| Built-in back-up battery | BATTERY | 0.4 |
| Bluetooth | Bluetooth | 0.5 |
| Z-wave | Z-wave | 0.2 |
| 802.15.4 for ZigBee, Thread, etc. | 802.15.4 | 0.2 |
| PCIe Interface Gen 1 & 2 Base (includes first lane) | PCIe Gen 1 & 2 Base | 0.2 |
| PCIe Gen 1 & 2 Additional Lane | PCIe Gen 1 & 2 Addl Lane | 0.1 |
| PCIe Interface Gen 3 Base (includes first lane) | PCIe Gen 3 Base | 0.3 |
| PCIe Gen 3 Additional Lane | PCIe Gen 3 Addl Lane | 0.3 |
| Application Processor 5K-10K DMIPS | AP 5K-10K DMIPS | 1.0 |
| Application Processor > 10K DMIPS (for every addl. 5K DMIPS) | AP Add'l Over 10K DMIPS | 0.5 |
| Speaker < 10 Watts (maximum 2) | Speaker | 0.3 |
| Voice Control | Voice Control | 0.5 |

APPENDIX B: CONSUMER ACCESS TO SMALL NETWORK EQUIPMENT ENERGY-EFFICIENCY INFORMATION

SNE energy information for consumers is available at www.energy-efficiency.us, and for each service provider and retail vendor at the links below.

Table 5: Consumer Access to Small Network Equipment Energy-Efficiency Information

| Signatory | Consumer information Location | Additional Information |
|--------------------------|---|---|
| Service Providers | | |
| Altice USA | https://energy.cablelabs.com/alticeusa/ | |
| AT&T | https://www.att.com/scmsassets/upper_funnel/other/att-small-network-equipment-energy-information.pdf | |
| Charter | https://www.spectrum.net/support/general/energy-usage-your-charter-equipment | |
| Comcast | https://www.xfinity.com/support/articles/internet-equipment-energy-usage | |
| Cox | https://energy.CableLabs.com/cox-sne/ | |
| Frontier | https://content.frontier.com/-/media/documents/helpcenter/tv/fiber-tv/small-network-equipment-efficiency.pdf | |
| Verizon | https://www.verizon.com/support/residential/tv/equipment/stb-dvr | Scroll down to "Learn about Verizon's Small Network Equipment (SNE) Energy Information" and click the plus sign next to it. |
| Vendors | | |
| Actiontec | No Retail Products | |
| ASUS | https://www.asus.com/us/site/SNE-Info/Asus-SNE-Energy-Information.pdf | |
| CommScope | https://www.commscope.com/globalassets/digizuite/330860-commscope-sne-public-report.pdf | |
| eero | https://support.eero.com/hc/en-us/articles/207625336-How-much-power-does-eero-use- | |
| Google | https://services.google.com/fh/files/misc/google_sne_energy_information.pdf | |
| Linksys | https://www.linksys.com/support-article?articleNum=50594 | |
| Netgear | https://www.netgear.com/about/esg-environmental-social-governance | |
| Plume | https://www.plume.com/legal/sne-energy-information/ | |
| Vantiva | No Retail Products | |
| TP-Link | https://www.tp-link.com/us/landing/tp-link-sne-energy-information-2023/ | |
| Ubee Interactive | No Retail Products | |
| Sagemcom | No Retail Products | |

APPENDIX C: 2023 AUDIT REPORT

The Voluntary Agreement requires the service provider and retail vendor signatories to submit annual procurement and sales figures to an Independent Administrator, who collects and analyzes the amounts, then publishes the findings in an annual report. The Administrator aggregates the submissions from the individual signatories for publication in the annual report to protect this highly confidential information. To verify the accuracy of the reported data, the Voluntary Agreement requires an audit of one randomly selected commercial signatory each year. In accordance with the confidentiality requirements of the Voluntary Agreement, the name of the audited party is not published.

D+R conducted an audit of the 2023 report data provided in 2024, which was used to develop the 2023 Annual Report. As part of the audit process, they randomly selected the party by creating an Excel spreadsheet and using the "random" function. D+R then reviewed raw data, including invoice records and specification sheets, from the selected party to verify the quantities provided in the original submission.

D+R, as the Independent Administrator, has determined that the data submitted by the signatory for the audit is consistent with the annual report submitted by that party.

D+R
International