D+R International

2024 Annual Report

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

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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. 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 91.3 million residential U.S. Internet subscribers at the end of 2024, accounting for nearly 85% of the wireline Internet access market.

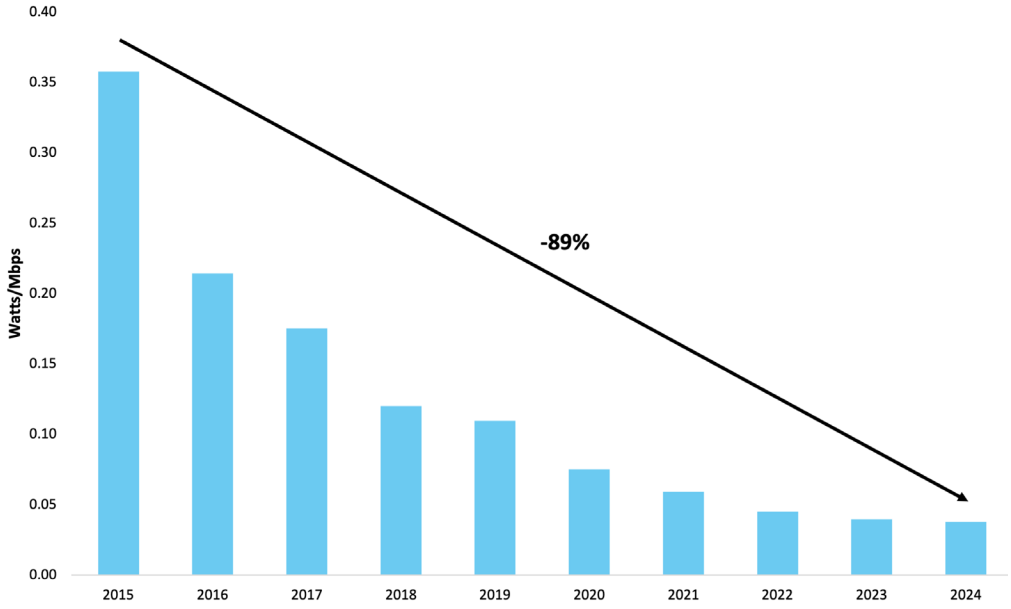
One of the requirements of the Voluntary Agreement is the publication of an annual report that summarizes developments for the previous calendar year. This tenth annual report has been prepared by the Independent Administrator and Auditor, D+R International, Ltd. (D+R).

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 that are developed in partnership with the Energy Advocate signatory, Pacific Gas and Electric Company (PG&E). The current "Tier 3" allowances that became effective in 2023 will be replaced by more stringent "Tier 4" allowances beginning in 2026.

The findings of this report are supported by D+R's review of data from the signatories, an audit of one randomly selected signatory's records, and independent verification testing of models of each reporting signatory. Overall, 98.6% of SNE purchased or sold by the signatories in 2024 met the 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 Ready State Power of New SNE Purchases Relative to Broadband Speeds



These figures were calculated by dividing the weighted average Ready State 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 improve energy efficiency, increase the reliability and security 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 91.3 million U.S. residential customers, representing 85% of that market in 2024.[1]

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 of routers, 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.

[1] Based on data provided by the service provider signatories, NCTA - The Internet & Television Association, and the Consumer Technology Association.
[2] For 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
- 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 2024. This report is the tenth annual report.

The Voluntary Agreement requires that the Steering Committee meet at least once each year. The Steering Committee convened two times in 2024, and working groups conducted additional meetings. 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 early 2025, the signatories amended the Agreement, extending the term through 2028 and defining a more rigorous Tier 4 schedule of allowances that will go into effect beginning in 2026.[3]

[3] See NCTA, *Broadband and Utility Leaders Unite to Boost Energy Efficiency of Home Internet Devices* (Feb. 5. 2025), https://www.ncta.com/news/broadband-and-utility-leaders-unite-to-boost-energy-efficiency-of-home-internet-devices/

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 in the United States 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 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 to D+R.

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 2024 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 2024 reporting period, there was one approved new feature allowance for MoCA 2.5 bonded channels, a technology that combines multiple channels to enable faster internet throughout the home.

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. As detailed below, all signatories met their commitments in 2024.

REPORT ON 2024 PROCUREMENT AND SALES COMMITMENTS

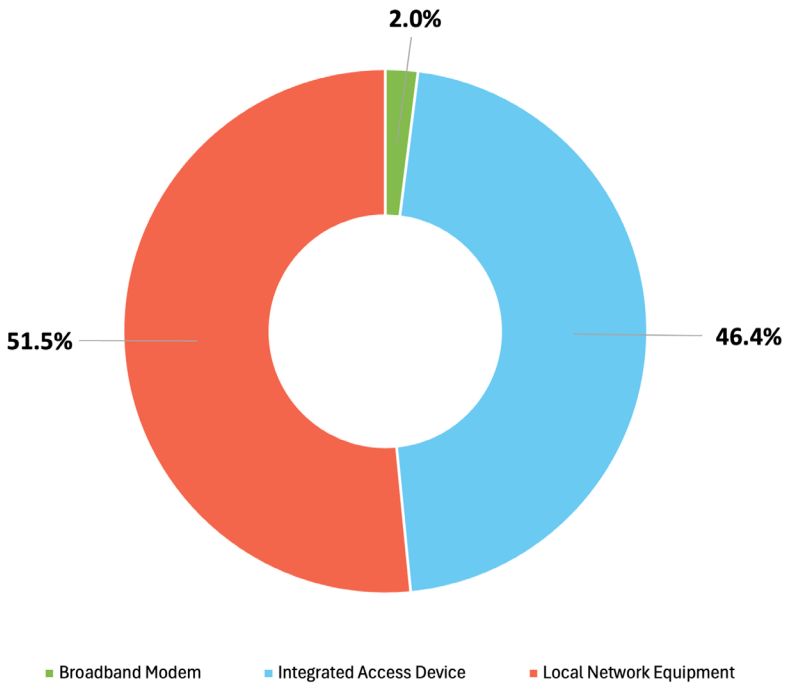
Under the Voluntary Agreement, the commercial signatories committed that 90% of the new SNE purchased or sold at retail each year will meet specified energy-efficiency levels. The Independent Administrator collected data from the service provider and retail vendor signatories to measure satisfaction of these commitments in 2024. Overall, 98.6% of reported units satisfied the Tier 3 energy-efficiency levels of the Voluntary Agreement in 2024. 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 98.7% and 98.6% respectively, and 95.2% 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 2024.

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

Year	2024		
Category	Reported Units	Number Meeting Tier 3 Levels	Percent Meeting Tier 3 Levels
Broadband Modem	502,593	478,618	95.2%
Integrated Access Device	11,656,929	11,504,602	98.7%
Local Network Equipment	12,936,880	12,751,277	98.6%
Total	**25,096,402**	**24,734,497**	**98.6%**

Continuing the trend from the previous year, LNEs and IADs each represent approximately half of reported products purchased or sold in 2024, followed by Broadband Modems at 2%. Figure 2 shows the category breakdown, by percentage, of the units purchased or sold in 2024.

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 2024 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, D+R not only reports changes in total power but also evaluates the efficiency of SNE products relative to their capability.

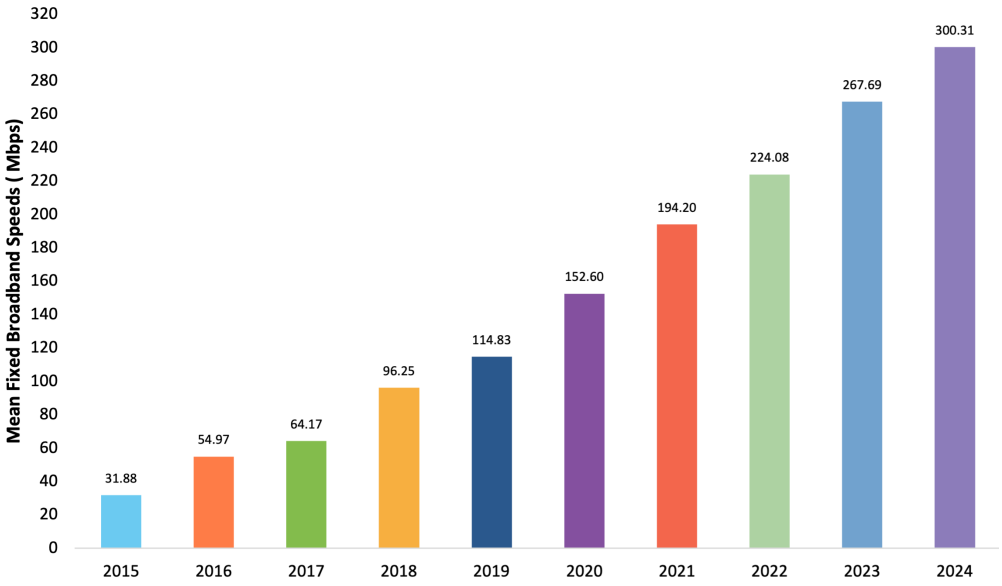
The weighted average power of SNE devices purchased or sold by the signatories increased by 7% from 2023 to 2024. The year-over-year increase is primarily attributable to a 15% rise in the weighted average power of reported LNE devices which represent a slight majority of the reported devices in 2024. The increase in nominal power of SNE in 2024 can be attributed to the power requirements of supporting much faster broadband speeds and stronger Wi-Fi. New Wi-Fi technologies such as Wi-Fi 7, and devices with faster WAN connections, more radios, antennas, and MIMO spatial streams, can require more power. Even with this increase, LNE continues to measure the lowest weighted average power of the three categories, at 8.45 watts.

Table 2: Weighted Average Power Consumption for Small Network Equipment Categories 2015-2024

SNE Category	Average Weighted Power (in Watts)									
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Broadband Modem	6.67	7.11	8.12	9.36	9.65	9.43	9.76	9.21	9.41	9.33
Integrated Access Device	13.30	13.53	13.65	13.73	14.49	13.87	13.51	14.40	14.68	14.69
Local Network Equipment	6.44	5.62	5.28	6.79	7.64	7.21	7.55	6.36	7.31	8.45
Total Weighted Average	11.36	11.79	11.26	11.55	12.59	11.49	11.49	10.09	10.62	11.37

It is notable that weighted average power has held relatively steady since the Voluntary Agreement began in 2015, even though the newer SNE supports substantially more robust features and functionalities. 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 ninefold in just nine years, as shown in Figure 3.

Figure 3: Annual Growth of Fixed Consumer Broadband Download Speeds



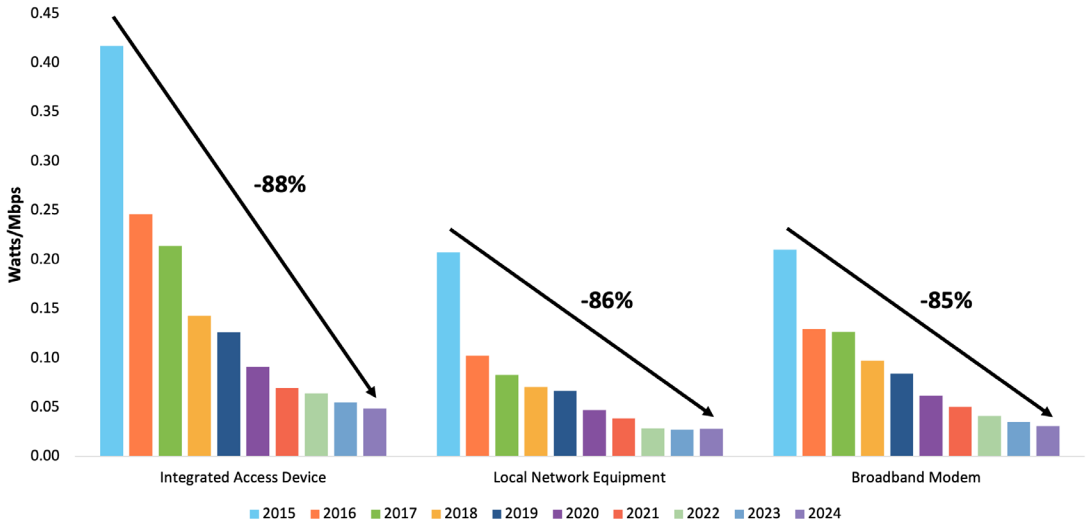
Source: Ookla

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, 88% for IADs, 86% for LNE, and 85% for broadband modems since 2015, as shown in Figure 4 below.

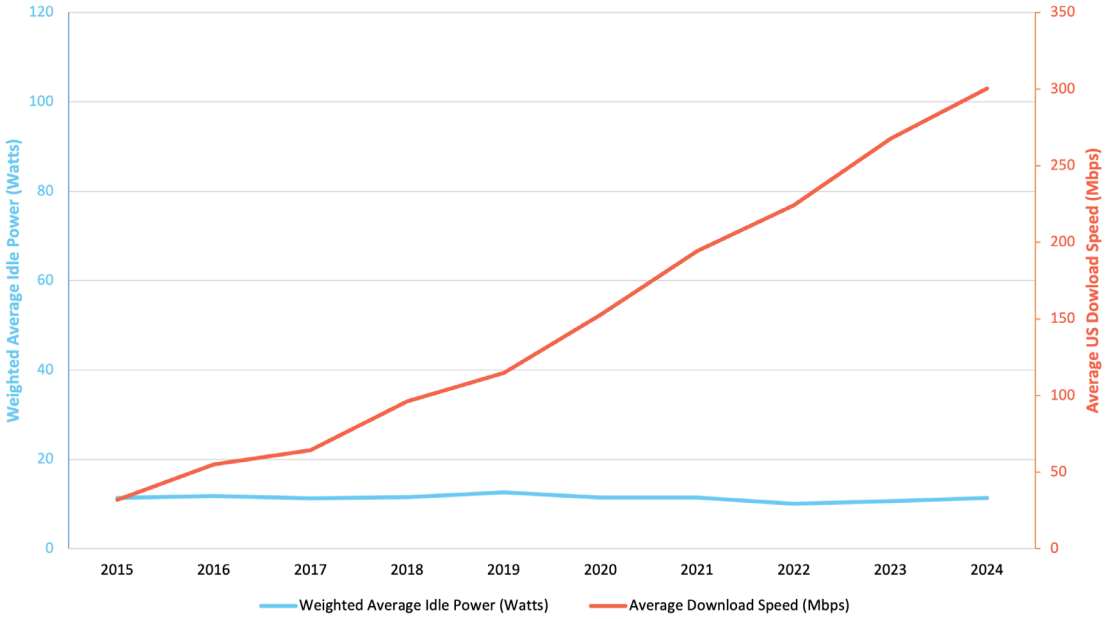
Figure 4: Weighted Average Energy Usage by Equipment Type, Relative to Average Broadband Download Speed



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 download speed for each year 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 2015-2024



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 4 levels taking effect in 2026, 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

The Voluntary Agreement tasks the Independent Administrator with randomly selecting one model from each commercial signatory for independent lab verification testing. Lab verification testing is conducted by, or under the observation of, a qualified third party approved by the Independent Administrator. Test results are compared to the reported value as well as the maximum power consumption under the applicable allowances for that device.

For 2024, every model selected tested 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 their devices.

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 2024

Appendix A lists SNE reported by the signatories as purchased or sold in 2024. 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 2024

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
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	Altice Labs	GR140IG	IAD Fiber WAN	GigE LAN(4), 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, FXS, USB 3	9.00	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	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	6.50	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
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, 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, 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, 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, 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-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
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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
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, 6 GHz Radio (160 MHz) LP(2), 6 GHz MIMO (160 MHz) above 2x2 LP(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 2, USB 3, PCIe Gen 1 & 2 Base(4), PCIe Gen 1 & 2 Addl Lane(2), 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-AC55	Advanced LNE	GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP	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	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
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-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-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-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-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
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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
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-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
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), 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, 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 2, USB 3, PCIe Gen 1 & 2 Base(3), PCIe Gen 1 & 2 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2)	17.50	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
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
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, 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, 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, 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, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	8.70	Yes
ASUS	ASUS	AXE7800	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), 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	8.91	Yes
ASUS	ASUS	BD4	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, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	9.40	Yes
ASUS	ASUS	BD5	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, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	9.40	Yes
ASUS	ASUS	BE14000	Advanced LNE	GigE LAN(2), 2.5 GigE LAN Active, 2.5 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP, 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(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(3)	12.67	Yes
ASUS	ASUS	BE30000	Advanced LNE	GigE LAN(3), 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP(2), 6 GHz MIMO (160 MHz) above 2x2 LP(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, PCIe Gen 1 & 2 Base(4), PCIe Gen 1 & 2 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2)	23.54	No
ASUS	ASUS	BE5000	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, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	9.40	Yes
ASUS	ASUS	BQ16 Pro	Advanced LNE	GigE LAN(3), 10 GigE LAN Active, 10 GigE LAN, 6 GHz Radio (160 MHz) LP(2), 6 GHz MIMO (160 MHz) above 2x2 LP(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, PCIe Gen 1 & 2 Base(4), PCIe Gen 1 & 2 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2)	23.54	No

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
ASUS	ASUS	BT10	Advanced LNE	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, 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	15.77	Yes
ASUS	ASUS	BT6	Advanced LNE	GigE LAN(3), 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, USB 3, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(3)	10.34	Yes
ASUS	ASUS	BT8	Advanced LNE	GigE LAN(2), 2.5 GigE LAN Active, 2.5 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP, 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(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(3)	12.67	Yes
ASUS	ASUS	EBA63	Advanced LNE	GigE LAN, 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	3.84	Yes
ASUS	ASUS	ET9	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), 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	8.91	Yes
ASUS	ASUS	RT-AX57 Go	Advanced LNE	GigE LAN(2), 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	3.72	Yes
ASUS	ASUS	RT-BE3600	Advanced LNE	GigE LAN(4), 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, 802.11n 256 QAM, USB 3, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	6.73	Yes
ASUS	ASUS	RT-BE58U	Advanced LNE	GigE LAN(4), 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, 802.11n 256 QAM, USB 3, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	6.73	Yes
ASUS	ASUS	RT-BE7200	Advanced LNE	GigE LAN(4), 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 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, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2)	14.08	Yes
ASUS	ASUS	RT-BE86U	Advanced LNE	2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 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), PCIe Gen 1 & 2 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2)	12.20	Yes
ASUS	ASUS	RT-BE88U	Advanced LNE	GigE LAN(4), 2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 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, PCIe Gen 1 & 2 Base(2), PCIe Gen 1 & 2 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(2)	14.08	Yes
ASUS	ASUS	RT-BE92U	Advanced LNE	2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 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, 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	10.50	Yes
ASUS	ASUS	XD4 PLUS	Advanced LNE	GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM	5.34	Yes
AT&T	Nokia	BGW320-505	IAD SFP GPON	GigE Backup WAN, GigE LAN(3), 5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (160 MHz) LP(2), 5 GHz MIMO (160 MHz) above 2x2 LP(4), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	14.37	Yes
AT&T	Nokia	BGW320-505	IAD GigE	SFP Backup WAN Not Present, GigE LAN(3), 5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (160 MHz) LP(2), 5 GHz MIMO (160 MHz) above 2x2 LP(4), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	13.02	Yes
AT&T	Humax	BGW320-500	IAD SFP GPON	GigE Backup WAN, GigE LAN(3), 5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (160 MHz) LP(2), 5 GHz MIMO (160 MHz) above 2x2 LP(4), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	13.59	Yes

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
AT&T	Humax	BGW320-500	IAD GigE	SFP Backup WAN Not Present, GigE LAN(3), 5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (160 MHz) LP(2), 5 GHz MIMO (160 MHz) above 2x2 LP(4), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	12.40	Yes
AT&T	Airties	4971	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, 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS	7.20	Yes
AT&T	Airties	4991	Advanced LNE	5 GigE LAN(2), 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, Bluetooth, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	11.65	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) LP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2), AP 5K-10K DMIPS	4.90	Yes
AT&T	WNC	CGW452	IAD SFP GPON	GigE Backup WAN, 2.5 GigE LAN Active, 2.5 GigE LAN(2), 10 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO 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), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	15.54	Yes
AT&T	WNC	CGW452	IAD 10 GigE	SFP Backup WAN Not Present, 2.5 GigE LAN Active, 2.5 GigE LAN(2), 10 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO 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), 802.11n 256 QAM, FXS(2), USB 2, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	15.25	Yes
AT&T	ARRIS	BGW620	IAD SFP GPON	GigE Backup WAN, GigE LAN(2), 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, FXS(2), USB 2, Bluetooth, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	16.25	Yes
AT&T	ARRIS	BGW620	IAD 10 GigE	SFP Backup WAN Not Present, GigE LAN(2), 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, FXS(2), USB 2, Bluetooth, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	15.28	Yes
AT&T	ARRIS	BGW620	IAD Fiber WAN	GigE Backup WAN, SFP Backup WAN Not Present, GigE LAN(2), 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, FXS(2), USB 2, Bluetooth, PCIe Gen 1 & 2 Base(3), AP 5K-10K DMIPS	15.97	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	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	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	12.50	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
Charter	Askey	SBE1V1K	Advanced LNE	GigE LAN(2), 2.5 GigE LAN Active, 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, 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, AP Add'l Over 10K DMIPS	16.00	Yes
Charter	Sagemcom	PP203X	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
Charter	Sagemcom	SONUV1S	IAD 10G EPON	GigE LAN, 10 GigE LAN Active, FXS(2)	6.00	Yes
Charter	Humax	SONUV1H	IAD 10G EPON	GigE LAN, 10 GigE LAN Active, FXS(2)	6.00	Yes
Charter	Vantiva	ET2251	IAD D3.1	2.5 GigE LAN Active, FXS(2)	10.50	Yes
Charter	Hitron	EN2251	IAD D3.1	2.5 GigE LAN Active, FXS(2)	11.00	Yes
Charter	Ubee	EU2251	IAD D3.1	2.5 GigE LAN Active, FXS(2)	10.00	Yes
Charter	Sercomm	ES2251	IAD D3.1	2.5 GigE LAN Active, FXS(2)	12.00	Yes
Charter	Hitron	SONUV1N	IAD 10G EPON	GigE LAN, 10 GigE LAN Active, FXS(2)	8.50	Yes
Comcast	ARRIS/CommScope	TG4482A	IAD D3.1	GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO above 2x2 LP(2), 5 GHz Radio (160 MHz) LP, 5 GHz MIMO (160 MHz) above 2x2 LP(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
Comcast	Vantiva	CGM4981COM	IAD D3.1	GigE LAN(3), 2.5 GigE LAN Active, 2.4 GHz Radio LP, 2.4 GHz MIMO 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), 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	Vantiva	CVA601ZCOM	IAD D3.1	10 GigE LAN Active, 10 GigE LAN, 5 GHz Radio (20, 40, 80 MHz) LP( ), 5 GHz MIMO (20, 40, 80 MHz) above 2x2 LP( ), 5 GHz Radio (160 MHz) HP( ), FXS(2), Z-wave( )	16.50	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
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	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	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	CVA4004COX1	Basic D3.1	2.5 GigE LAN Active	11.00	Yes
Cox	CommScope	TM9202AP2/CX-204	IAD D3.1	2.5 GigE LAN Active, FXS(2)	12.00	Yes
Cox	Sagemcom	XE2	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
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
eero	eero	eero Outdoor 7	Advanced LNE	2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2(2), Bluetooth, 802.15.4, PCIe Gen 3 Base, AP 5K-10K DMIPS	6.20	Yes
Frontier	Frontier	FCA252	Basic LNE	2.5 GigE LAN Active, MoCA	3.47	Yes
Frontier	Frontier	FMT25A	Basic LNE	2.5 GigE LAN Active, MoCA	2.78	Yes
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	4.92	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 Addl Lane(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS(6)	22.71	Yes
Frontier	eero	eero Outdoor 7	Advanced LNE	2.5 GigE LAN Active, 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, 802.11n 256 QAM, USB 2(2), Bluetooth, 802.15.4, PCIe Gen 3 Base, AP 5K-10K DMIPS	6.48	Yes
Frontier	Sagemcom	FWR226e	Advanced LNE	GigE LAN(2), 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, 5 GHz Radio (20, 40, 80 MHz) HP, 5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP(2), 802.11n 256 QAM, MoCA, FXS(2), USB 3, PCIe Gen 1 & 2 Base(3), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS	15.76	Yes
Frontier	Sagemcom	TWX206e	Advanced LNE	GigE LAN(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, 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(3), PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS	11.21	Yes
Frontier	Sagemcom	CR22	IAD VDSL2 (30a)	VDSL2 (30a) Simul WAN, GigE LAN(2), FXS(2), USB 3, PCIe Gen 1 & 2 Base(3), PCIe Gen 1 & 2 Addl Lane	8.18	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
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 Addl 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	LN3101	Advanced LNE	Fast E LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP	3.30	Yes
Linksys	Linksys	LN3121	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	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
Linksys	Linksys	LN1100	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, Bluetooth, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS	11.00	Yes
Linksys	Linksys	LN1200	Advanced LNE	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	8.00	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	C7000-100NAR	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-100NAR	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	CAX30-100NAR	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	CM700-100NAS	Basic D3.0	D3 above 4x4(7), GigE LAN	8.67	Yes
Netgear	NETGEAR	CM1000-100NAR	Basic D3.1	GigE LAN, AP 5K-10K DMIPS	7.24	Yes
Netgear	NETGEAR	CM1100-100NAR	Basic D3.1	GigE LAN(2)	7.31	Yes
Netgear	NETGEAR	CM1200-100NAR	Basic D3.1	GigE LAN(4)	7.32	Yes
Netgear	NETGEAR	CM2000-100NAR	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	CM2500-100NAS	Basic D3.1	GigE LAN(2)	7.25	Yes
Netgear	NETGEAR	CM3000-100NAS	Basic D3.1	GigE LAN(2), 2.5 GigE LAN Active	8.98	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	EAX15-100NAR	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
Netgear	NETGEAR	EAX17-100NAS	Advanced LNE	GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM	3.47	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	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	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	EX6170-100NAS	Advanced LNE	GigE LAN, 5 GHz Radio (20, 40, 80 MHz) LP, 2.4 GHz Radio HP	2.85	Yes
Netgear	NETGEAR	EX6250-100NAS	Advanced LNE	GigE LAN, 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	4.60	Yes
Netgear	NETGEAR	EX6400-100NAS	Advanced LNE	GigE LAN, 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(2)	4.40	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	GS108PP-100NAS	Basic LNE	GigE LAN(8)	2.50	Yes
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
Netgear	NETGEAR	GS308EPP-100NAS	Basic LNE	GigE LAN(5)	3.50	No
Netgear	NETGEAR	GS305P-100NAS	Basic LNE	GigE LAN(5)	3.43	No
Netgear	NETGEAR	GS305PP-100NAS	Basic LNE	GigE LAN(5)	3.24	No
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	GS308T-100NAS	Basic LNE	GigE LAN(8)	1.93	Yes
Netgear	NETGEAR	GS605NA	Basic LNE	GigE LAN(5)	1.14	Yes
Netgear	NETGEAR	GS608NA	Basic LNE	GigE LAN(8)	1.33	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	MK63-100NAR	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
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	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	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	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
Netgear	NETGEAR	MS105-100NAS	Basic LNE	2.5 GigE LAN Active(3), 2.5 GigE LAN(2)	5.80	Yes
Netgear	NETGEAR	MS108EUP-100NAS	Basic LNE	2.5 GigE LAN Active(4), 2.5 GigE LAN(4)	8.23	Yes
Netgear	NETGEAR	MS108TUP-100NAS	Basic LNE	2.5 GigE LAN Active(4), 2.5 GigE LAN(4)	12.73	Yes
Netgear	NETGEAR	MS108UP-100NAS	Basic LNE	2.5 GigE LAN Active(4), 2.5 GigE LAN(4)	8.23	Yes
Netgear	NETGEAR	MS305-100NAS	Basic LNE	2.5 GigE LAN Active(3), 2.5 GigE LAN(2)	5.90	Yes
Netgear	NETGEAR	MS305E-100NAS	Basic LNE	2.5 GigE LAN Active(3), 2.5 GigE LAN(2)	3.52	Yes
Netgear	NETGEAR	MS308-100NAS	Basic LNE	2.5 GigE LAN Active(4), 2.5 GigE LAN(4)	5.51	Yes
Netgear	NETGEAR	MS308E-100NAS	Basic LNE	2.5 GigE LAN Active(4), 2.5 GigE LAN(4)	4.69	Yes
Netgear	NETGEAR	NBR750-100NAS	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
Netgear	NETGEAR	PL1000-100PAS	Basic LNE	GigE LAN	2.20	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	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	R6700AX-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	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	R7350-100NAS	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 3	6.34	Yes
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
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	RAX9-100PAS	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	RAX10-100NAR	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	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
Netgear	NETGEAR	RAX30-100NAR	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	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	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	RAX43-100NAR	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	5.50	Yes
Netgear	NETGEAR	RAX50-100NAR	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	RAX80-100NAR	Advanced LNE	GigE LAN(6), 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)	7.07	Yes
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	RAXE500-100NAR	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	RBE770-100NAS	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, 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2)	9.92	Yes
Netgear	NETGEAR	RBE773-100NAS	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, 802.11n 256 QAM, PCIe Gen 1 & 2 Base(2)	10.20	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	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, USB 2, PCIe Gen 1 & 2 Base	4.68	Yes
Netgear	NETGEAR	RBK652S-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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
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	RBK863S-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
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	RBK652S-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	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, USB 2, PCIe Gen 1 & 2 Base	4.68	Yes
Netgear	NETGEAR	CBK752-100NAS	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	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	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	RBK863S-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
Netgear	NETGEAR	RS150-100NAS	Advanced LNE	GigE LAN(3), 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	6.97	Yes
Netgear	NETGEAR	RS200-100NAS	Advanced LNE	GigE LAN(3), 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	6.16	Yes
Netgear	NETGEAR	RS280-1CCNAS	Advanced LNE	GigE LAN(2), 2.5 GigE LAN Active(2), 2.5 GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3	10.66	Yes
Netgear	NETGEAR	RS300-100NAS	Advanced LNE	GigE LAN(2), 2.5 GigE LAN Active(2), 2.5 GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 3	10.66	Yes
Netgear	NETGEAR	RS500-100NAS	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, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 6 GHz Radio (160 MHz) HP, 802.11n 256 QAM	0.00	Yes
Netgear	NETGEAR	RS600-100NAS	Advanced LNE	GigE LAN(3), 10 GigE LAN Active, 10 GigE LAN, 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	12.40	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	SRK60-100NAS	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	7.34	Yes

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
Netgear	NETGEAR	SRK60-100NAS	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	7.34	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	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	5.80	Yes
Netgear	NETGEAR	SXK50-100NAS	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	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	WAX210-100NAS	Advanced LNE	GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM	5.30	Yes
Netgear	NETGEAR	WAX214-100NAS	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	WAX220-100NAS	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	WAX605-100NAS	Advanced LNE	GigE LAN, 2.4 GHz Radio HP, 5 GHz Radio (20, 40, 80 MHz) HP, 802.11n 256 QAM	4.55	Yes
Netgear	NETGEAR	WAX610-100NAS	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
Netgear	NETGEAR	WAX620-100NAS	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	WAX625-100NAS	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	WAX630E-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	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	WBE710-100NAS	Advanced LNE	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	9.25	Yes
Netgear	NETGEAR	WBE718-111NAS	Advanced LNE	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	9.25	Yes
Netgear	NETGEAR	WBE750-100NAS	Advanced LNE	10 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), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM	12.73	Yes
Netgear	NETGEAR	WBE758-111NAS	Advanced LNE	10 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), 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM	12.73	Yes
Netgear	NETGEAR	XR1000-100NAR	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	Advanced LNE	10 GigE LAN Active(3), 10 GigE LAN(2)	8.54	Yes

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
Plume	Plume	PP203X	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
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(3)	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(3)	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(3)	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(3)	8.20	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	4.10	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	5.20	Yes
TP-Link	TP-Link	Archer Air R5	Advanced LNE	GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base	6.80	Yes
TP-Link	TP-Link	Archer AX10	Advanced LNE	GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS	4.90	Yes
TP-Link	TP-Link	Archer AX1500	Advanced LNE	GigE LAN(5), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS	4.90	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, PCIe Gen 1 & 2 Addl Lane	6.50	Yes
TP-Link	TP-Link	Archer GXE75	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, USB 3, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	9.40	Yes
TP-Link	TP-Link	Archer BE230	Advanced LNE	GigE LAN(3), 2.5 GigE LAN Active(2), 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	9.10	Yes
TP-Link	TP-Link	Archer BE3600	Advanced LNE	GigE LAN(3), 2.5 GigE LAN Active(2), 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	9.10	Yes
TP-Link	TP-Link	Archer BE6500	Advanced LNE	GigE LAN(3), 2.5 GigE LAN Active(2), 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, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	9.10	Yes
TP-Link	TP-Link	Archer BE700	Advanced LNE	GigE LAN(3), 2.5 GigE LAN Active, 10 GigE LAN Active, 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, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	15.70	Yes
TP-Link	TP-Link	Archer BE700 Pro	Advanced LNE	2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active, 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, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	15.20	Yes
TP-Link	TP-Link	Archer BE550 Pro	Advanced LNE	2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active, 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, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	15.20	Yes

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
TP-Link	TP-Link	Archer BE11000 Pro	Advanced LNE	2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active, 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, PCIe Gen 3 Base, PCIe Gen 3 Addl Lane, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	15.20	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(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), 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 3 Base(4), PCIe Gen 3 Addl Lane(4), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	24.40	Yes
TP-Link	TP-Link	Archer GE800	Advanced LNE	2.5 GigE LAN Active(2), 2.5 GigE LAN(2), 10 GigE LAN Active(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), 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(3), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	25.20	Yes
TP-Link	TP-Link	Deco BE11000	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	11.46	Yes
TP-Link	TP-Link	Deco BE65 Pro	Advanced LNE	2.5 GigE LAN, 5 GigE LAN Active(2), 6 GHz Radio (160 MHz) LP, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, USB 2, PCIe Gen 3 Base(2), AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	11.44	Yes
TP-Link	TP-Link	Deco X20	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	5.59	Yes
TP-Link	TP-Link	Deco BE23	Advanced LNE	2.5 GigE LAN Active(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	8.65	Yes
TP-Link	TP-Link	Deco BE25	Advanced LNE	2.5 GigE LAN Active(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	8.65	Yes
TP-Link	TP-Link	Deco BE5000	Advanced LNE	2.5 GigE LAN Active(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base, AP 5K-10K DMIPS, AP Add'l Over 10K DMIPS	8.65	Yes
TP-Link	TP-Link	Deco BE75	Advanced LNE	2.5 GigE LAN Active, 2.5 GigE LAN(2), 10 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 6 GHz Radio (160 MHz) HP, 6 GHz MIMO (160 MHz) above 2x2 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 W3000	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 W8100	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 BE63	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	11.46	Yes
TP-Link	TP-Link	Deco WB10800	Advanced LNE	GigE LAN(2), 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM, PCIe Gen 1 & 2 Base	7.65	Yes
TP-Link	TP-Link	Deco WM9000	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 X15	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 X50-PoE	Advanced LNE	GigE LAN, 2.5 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160 MHz) HP, 802.11n 256 QAM	6.50	Yes
TP-Link	TP-Link	Deco XE5300	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 XE70 Pro	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
TP-Link	TP-Link	Deco XM73	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
Vantiva	Vantiva	G18	IAD D3.1	GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (20, 40, 80 MHz) LP, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane	14.50	Yes
Vantiva	Vantiva	G20	IAD D3.1	GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP, PCIe Gen 1 & 2 Base, PCIe Gen 1 & 2 Addl Lane	15.20	Yes
Vantiva	Vantiva	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)	15.00	Yes
Vantiva	Vantiva	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
Vantiva	Vantiva	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
Vantiva	Vantiva	S33	Basic D3.1	GigE LAN, 2.5 GigE LAN Active	10.20	Yes
Vantiva	Vantiva	S34	Basic D3.1	GigE LAN, 2.5 GigE LAN Active	10.20	Yes
Vantiva	Vantiva	SB6183	Basic D3.0	D3 above 4x4(3), GigE LAN	8.45	No
Vantiva	Vantiva	SB6190	Basic D3.0	D3 above 4x4(7), GigE LAN	8.60	Yes
Vantiva	Vantiva	SB8200	Basic D3.1	GigE LAN(2)	10.80	Yes
Vantiva	Vantiva	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
Vantiva	Vantiva	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
Vantiva	Vantiva	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
Vantiva	Vantiva	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
Vantiva	Vantiva	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
Vantiva	Vantiva	SBV3202	IAD D3.0	D3 above 4x4(7), GigE LAN, FXS(2)	9.20	Yes
Vantiva	Vantiva	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
Vantiva	Vantiva	T25	IAD D3.1	GigE LAN(2), FXS(2)	9.40	Yes
Vantiva	Vantiva	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
Vantiva	Vantiva	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
Vantiva	Vantiva	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
Vantiva	Vantiva	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)	11.00	Yes
Vantiva	Vantiva	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
Vantiva	Vantiva	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
Vantiva	Vantiva	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

Table 3: Small Network Equipment Purchased/Sold by Voluntary Agreement Signatories in 2024 (Cont.)

Signatory	Manufacturer	Model Number	Base Type	Claimed Allowances	Reported Ready State Power (W)	Meets Tier 3 VA Levels
Vantiva	Vantiva	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	8.00	Yes
Verizon	Actiontec	GT784WNV	IAD ADSL2+	Fast E LAN(4), 2.4 GHz Radio LP, USB 2	6.09	No
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	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 (Single port)	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 2024.

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

Table 4: Voluntary Agreement Allowance Descriptions (Cont.)

Description	Descriptor	Allowance (watts)
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-sne/	
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	https://www.actiontec.com/wp-content/uploads/2019/05/Actiontec_Broadband_Equipment_Energy_Information_SNE_v3.pdf	
ASUS	https://www.asus.com/us/site/SNE-Info/Asus-SNE-Energy-Information.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://support.linksys.com/kb/article/8634-en/	
Netgear	https://www.downloads.netgear.com/files/netgear/documents/NETGEAR_SNE_Energy_Information.pdf	
Plume	https://www.plume.com/legal/sne-energy-information	
TP-Link	https://www.tp-link.com/us/landing/tp-link-sne-energy-information-2024/	
Ubee Interactive	No Retail Products	
Vantiva	https://www.vantiva.com/app/uploads/2025/04/Vantiva_SNE_Public_Report_2025-04-03.pdf	

APPENDIX C: 2024 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 2024 report data provided in 2025, which was used to develop the 2024 Annual Report. D+R randomly selected the party to be audited 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. Based upon that information, D+R determined that the data submitted by the signatory for the audit is consistent with the annual report submitted by that party.

D+R International