ARRIS BRAND SNE PRODUCT ENERGY EFFICIENCY

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This document provides information about the energy efficiency of ARRIS brand Small Network Equipment (SNE) models sold by CommScope through retail channels since January 1, 2015. This information will be updated as CommScope makes new devices available. Some listed models may no longer be available and/or may not be available in all areas. The power measurements herein represent SNE devices generally configured and measured in accordance with the test procedures as specified in the Voluntary Agreement. The energy use of an individual SNE device may vary. Idle power may vary when connected to a Service Provider network.

For more information about the Voluntary Agreement, including energy efficiency information for a product supplied by a Service Provider, please refer to: https://www.energy-efficiency.us/

Model Number	Base Type	Additional Features	Idle Power (Watts)
G34	IAD D3.1	GigE LAN(4), 2.4 GHz Radio HP, 5 GHz Radio (20,40,80 MHz) HP, PCIe Gen 1 & 2 Base(2)	14.1
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)	16.0
G54	IAD D3.1	GigE LAN(4), 10 GigE LAN Active, 2.4 GHz Radio HP, 5 GHz Radio (160MHz) 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	25.0
S33	Basic D3.1	GigE LAN, 2.5 GigE LAN Active	10.2
SB6183	Basic D3.0	D3 above 4x4(3), GigE LAN	8.45
SB6190	Basic D3.0	D3 above 4x4(7), GigE LAN	8.6
SB8200	Basic D3.1	GigE LAN(2)	10.8
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	10.6
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(2), USB2	11.1
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, USB2	13.2

Model Number	Base Type	Additional Features	Idle Power (Watts)
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, USB2	14.2
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	18.2
SBV2402	IAD D3.0	D3 above 4x4(5), GigE LAN, FXS(2)	7.8
SBV3202	IAD D3.0	D3 above 4x4(7), GigE LAN, FXS(2)	9.2
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), USB2(2)	14.3
T25	IAD D3.1	GigE LAN(2), FXS(2)	9.4
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	5.8
W21	Adv. 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	7.5
W30	Adv. 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)	10.5
W31	Adv. 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)	11.0
W6B/W6U	Adv. 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	7.4
W61	Adv. 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	8.0
WC4T	Adv. 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	7.0

Models in the table below were purchased prior to 2023 and use then-applicable Tier 2 allowances

Model Number	Base Type	Additional Features	Idle Power (Watts)
SB6121	Basic D3.0	GigE LAN	6.64
SB6141	Basic D3.0	D3 above 4x4, GigE LAN	5.45
SBG6400	IAD D3.0	D3 above 4x4, GigE LAN(2), Wi-Fi(n) LP, USB2	8.0
SBG6580	IAD D3.0	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP	11.5
SBG6580-2	IAD D3.0	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP	7.8
SBG6700-AC	IAD D3.0	D3 above 4x4, GigE LAN(2), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP	10.0
SBG6782-AC	IAD D3.0	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP, MoCA	13.2
SBG6900-AC	IAD D3.0	D3 above 4x4(3), GigE LAN(4), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP(2), USB2(2)	14.1
SBG7580-AC	IAD D3.0	D3 above 4x4(7), GigE LAN(4), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP(2), USB2	14.0
SBR-AC1200P	Adv. LNE	FastE LAN(4), GigE LAN, Wi-Fi(n) LP, Wi-Fi(ac) LP, G.hn, USB2, PCIe	9.5
SBR-AC1750	Adv. LNE	GigE LAN(5), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP(2), USB2	5.25
SBR-AC1900P	Adv. LNE	GigE LAN(5), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP(2), 802.11n 256 QAM, G.hn, USB2, USB3, PCIe(2)	11.9
SBR-AC3200P	Adv. LNE	GigE LAN(5), Wi-Fi(n) LP, Wi-Fi(ac) LP(2), Wi-Fi above 2x2 LP(3), 802.11n 256 QAM, G.hn, USB2, USB3, PCIe(4)	15.0
SBX-1000P	Basic LNE	GigE LAN, G.hn	3.7
SBX-AC1200P	Adv. LNE	GigE LAN, Wi-Fi(n) LP, Wi-Fi(ac) LP, G.hn, PCIe	7.4
TG862G	IAD D3.0	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP, FXS(2), USB2	8.3
TG862G (with battery)	IAD D3.0	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP, FXS(2), USB2, Battery	8.4
TG862R	IAD D3.0	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP, FXS(2), USB2	8.3
TM822G	IAD D3.0	D3 above 4x4, GigE LAN, FXS(2)	5.7
TM822G (with battery)	IAD D3.0	D3 above 4x4, GigE LAN, FXS(2), Battery	5.8
TM822R	IAD D3.0	D3 above 4x4, GigE LAN, FXS(2)	5.7
TM1602AP2	IAD D3.0	D3 above 4x4(3), GigE LAN, FXS(2)	8.0
TM1602G	IAD D3.0	D3 above 4x4(3), GigE LAN, FXS(2)	9.1
TM3402A	IAD D3.1	GigE LAN(4), FXS(2), AP 5K-10K DMIPS	10.0
WR2100	Basic LNE	FastE LAN, Wi-Fi(n) LP	2.8

BASE TYPE LEGEND:

Name	Description
IAD D3.0	Integrated Access Device with DOCSIS 3.0 WAN (4x4 configuration)
IAD D3.1	Integrated Access Device with DOCSIS 3.1 WAN (no FDX)
IAD GigE	Integrated Access Device with Gigabit Ethernet WAN
Basic D3.0	Broadband Modem with DOCSIS 3.0 WAN (4x4 configuration)
Basic D3.1	Broadband Modem with DOCSIS 3.1 WAN (no FDX)
Basic LNE	Basic Local Network Equipment without IAD functionality
Adv. LNE	Advanced Local Network Equipment with IAD functionality

TIER 3 ADDITIONAL FEATURES LEGEND:

Name	Description
D3 above 4x4	DOCSIS 3.0 groups of 4 downstream channels, above 4x4
FastE LAN	Fast Ethernet LAN port
GigE LAN	Gigabit Ethernet LAN port
2.5 GigE LAN Active	2.5 Gigabit Ethernet port connected (active link)
10 GigE LAN Active	10 Gigabit Ethernet port connected (active link)
2.4 GHz Radio LP	Wi-Fi 2.4 GHz radio with a conducted output power of less than 200 mW per chain up to 2x2
2.4 GHz MIMO above 2x2 LP 5 GHz Radio (20, 40, 80 MHz) LP	Additional allowance per RF chain above 2x2 MIMO at 2.4 GHz with a conducted output power of less than 200 mW per chain 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 MIMO (20, 40, 80 MHz) above 2x2 LP	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
6 GHz Radio (160 MHz) LP	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 MIMO (160 MHz) above 2x2 LP	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
2.4 GHz Radio HP	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 MIMO above 2x2 HP	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
5 GHz Radio (20, 40, 80 MHz) HP	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

Name	Description
5 GHz MIMO (20, 40, 80 MHz) above 2x2 HP	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 Radio (160 MHz) HP	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 MIMO (160 MHz) above 2x2 HP	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
6 GHz Radio (160 MHz) HP	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 MIMO (160 MHz) above 2x2 HP	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
802.11n 256 QAM	Wi-Fi 802.11n at 2.4GHz supporting 256-QAM
MoCA	Media over Coaxial Cable, version 1.1 or 2.0
FXS	Foreign eXchange Subscriber (analog phone port)
USB2	USB 2.0 port (no load connected)
USB3	USB 3.0 port (no load connected)
PCIe Gen 1 & 2 Base	PCIe Interface Gen 1 & 2 Base (includes first lane)
PCIe Gen 3 Base	PCIe Interface Gen 3 Base (includes first lane)
PCIe Gen 3 Addl Lane	PCIe Gen 3 Additional Lane
AP 5K-10K DMIPS	Application Processor 5K-10K DMIPS

Note: A product may have multiple instances of a feature listed in this table. In those cases, the number of allowance adders applicable to the product is shown in parenthesis.

TIER 2 ADDITIONAL FEATURES LEGEND:

Name	Description
D3 above 4x4	DOCSIS 3.0 groups of 4 downstream channels, above 4x4
FastE LAN	Fast Ethernet LAN port
GigE LAN	Gigabit Ethernet LAN port
Wi-Fi(n) LP	Wi-Fi 802.11n 2.4GHz or 5GHz radio, up to 2x2 MIMO, conducted output power less than 200mW per chain
Wi-Fi(ac) LP	Wi-Fi 802.11ac 5GHz radio, up to 2x2 MIMO, conducted output power less than 200mW per chain
Wi-Fi above 2x2 LP	Additional RF chains above 2x2 MIMO (less than 200mW)
Wi-Fi(n) HP	Wi-Fi 802.11n 2.4GHz or 5GHz radio, up to 2x2 MIMO, conducted output power of 200mW or greater per chain

Wi-Fi(ac) HP	Wi-Fi 802.11ac 5GHz radio, up to 2x2 MIMO, conducted output power of 200mW or greater per chain
Wi-Fi above 2x2 HP	Additional RF chains above 2x2 MIMO (200mW or greater)
802.11n 256 QAM	Wi-Fi 802.11n at 2.4GHz supporting 256-QAM
G.hn	Gigabit Home Networking (Power Line Communications)
MoCA	Media over Coaxial Cable, version 1.1 or 2.0
FXS	Foreign eXchange Subscriber (analog phone port)
USB2	USB 2.0 port (no load connected)
USB3	USB 3.0 port (no load connected)
Battery	Back-up battery (if installed)
PCIe	PCIe Interface
AP 5K-10K DMIPS	Application Processor 5K-10K DMIPS

Note: A product may have multiple instances of a feature listed in this table. In those cases, the number of allowance adders applicable to the product is shown in parenthesis.

PRODUCT TYPE DEFINITIONS:

Broadband Modem: A simple network device that enables high speed data service with a WAN (Wide Area Network) interface to a service provider wired or optical network, and typically a single LAN (Local Area Network) 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 (Wide Area Network) interface to a service provider wired or optical network, and one or more of the following functions on the LAN (Local Area Network) interface: multiport routing, IEEE 802.11 (Wi-Fi) wireless access point functionality, and/or VoIP (Voice over Internet Protocol).

Local Network Equipment (LNE): A network device that does not have a direct interface to a service provider wired or optical network. This category can be further divided as follows:

> Basic LNE: A simple local network device that does not include additional routing functionality. Examples include switches and network extenders.
>
> Advanced LNE: A local network device that includes advanced functions such as multi-point routing, wireless access point, and/or VoIP.