

ARRIS SNE Product Energy Efficiency

March 28, 2018

This document provides information about the energy efficiency of Small Network Equipment (SNE) models sold by ARRIS through retail channels since January 1, 2015. This information will be updated as ARRIS 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 the 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.

Model Number	Base Type	Additional Features	Idle Power (Watts)
SB6121	Basic D3	GigE LAN	6.64
SB6141	Basic D3	D3 above 4x4, GigE LAN	5.45
SB6183	Basic D3	D3 above 4x4(3), GigE LAN	9.40
SB6190	Basic D3	D3 above 4x4(7), GigE LAN	8.60
SB8200	Basic D3	D3 above 4x4(7), GigE LAN(2)	10.75
SBG6400	IAD D3	D3 above 4x4, GigE LAN(2), Wi-Fi(n) LP, USB2	8.00
SBG6580	IAD D3	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP	11.44
SBG6580-2	IAD D3	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP	7.80
SBG6700-AC	IAD D3	D3 above 4x4, GigE LAN(2), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP	10.00
SBG6782-AC	IAD D3	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP, MoCA	13.20
SBG6900-AC	IAD D3	D3 above 4x4(3), GigE LAN(4), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP(2), USB2(2)	14.10
SBG6950AC2	IAD D3	D3 above 4x4(3), GigE LAN(4), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP(2), USB2	11.10
SBG7400AC2	IAD D3	D3 above 4x4(5), GigE LAN(4), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP(3), USB2	13.20
SBG7580-AC	IAD D3	D3 above 4x4(7), GigE LAN(4), Wi-Fi(n) LP, Wi-Fi(ac) LP, Wi-Fi above 2x2 LP(2), USB2	14.00
SBR-AC1200P	Adv. LNE	FastE LAN(4), GigE LAN, Wi-Fi(n) LP, Wi-Fi(ac) LP, G.hn, USB2, PCIe	9.50
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)	11.90
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)	15.00

Model Number	Base Type	Additional Features	Idle Power (Watts)
SBX-1000P	Basic LNE	GigE LAN, G.hn	3.70
SBX-AC1200P	Adv. LNE	GigE LAN, Wi-Fi(n) LP, Wi-Fi(ac) LP, G.hn, PCIe	7.40
SVG2482AC	IAD D3	D3 above 4x4(5), GigE LAN(4), Wi-Fi(n) LP, Wi-Fi above 2x2 LP, Wi-Fi(ac) HP, Wi-Fi above 2x2 HP, MoCA, FXS(2), USB2(2)	19.00
TG862G	IAD D3	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP, FXS(2), USB2	8.40
TG862R	IAD D3	D3 above 4x4, GigE LAN(4), Wi-Fi(n) LP, FXS(2), USB2	8.40
TM822G	IAD D3	D3 above 4x4, GigE LAN, FXS(2)	5.70
TM822R	IAD D3	D3 above 4x4, GigE LAN, FXS(2)	5.70
WR2100	Basic LNE	FastE LAN, Wi-Fi(n) LP	2.80

Note: Idle power may vary when connected to a Service Provider network.

Base Type Legend:

Name	Description
IAD D3	Integrated Access Device with DOCSIS 3 WAN, 4x4 configuration
IAD GigE	Integrated Access Device with Gigabit Ethernet WAN
Basic D3	Broadband Modem with DOCSIS 3 WAN, 4x4 configuration
Basic LNE	Basic Local Network Equipment without IAD functionality
Adv. LNE	Advanced Local Network Equipment with IAD functionality

Additional Features Legend:

Name	Description
D3 above 4x4	DOCSIS 3, additional 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
USB2	USB 2.0 port (no load connected)
USB3	USB 3.0 port (no load connected)
MoCA	Media over Coaxial Cable, version 1.1 or 2.0

Name	Description
FXS	Foreign eXchange Subscriber (analog phone port)
PCIe	PCIe Interface (connected internally)
G.hn	Gigabit Home Networking (Power Line Communications)

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 network. This category of products is further divided as follows:

Basic LNE: A simple local network device that does not include additional routing functionality. Examples include wireless repeaters and network extenders.

Advanced LNE: A local network device that includes advanced functions such as multi-point routing, wireless access point, and/or VoIP.

Reference:

For further information, the “Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Small Network Equipment” is available at:

<http://www.energy-efficiency.us/library/pdf/SNE-VoluntaryAgreement.pdf>