

## Google Small Network Equipment (SNE) Energy Efficiency Test Summary

Google LLC is a signatory to the “Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Small Network Equipment (As Amended Effective January 1, 2022)”

The test summary below is based on the Voluntary Agreement Tier 3 base types and features.

PRODUCT	MODEL	BASE TYPE	FEATURES	AVERAGE IDLE POWER (WATTS) <sup>1</sup>
Nest Wifi Pro	G6ZUC	Advanced LNE	GigE WAN port GigE LAN port Bluetooth Thread PCIe Gen 1 & 2 Base PCIe Gen 1 & 2 Additional Lane Application Processor 5-10K DMIPS Wi-Fi 2.4GHz 256-QAM Wi-Fi 2.4 GHz $\geq 200$ mW per chain up to 2x2 Wi-Fi 5 GHz radio 160 MHz $\geq 200$ mW per chain up to 2x2 Wi-Fi 6 GHz radio 160 MHz $\geq 200$ mW per chain up to 2x2	8.0
Nest Router	H2D	Advanced LNE	GigE WAN port GigE LAN port Bluetooth Thread PCIe Gen 1 & 2 Base Application Processor 5-10K DMIPS Wi-Fi 2.4GHz 256-QAM Wi-Fi 2.4 GHz $\geq 200$ mW per chain up to 2x2 Wi-Fi 5 GHz radio $\leq 80$ MHz $< 200$ mW per chain up to 2x2 RF chain $> 2 \times 2$ MIMO at 5 GHz $\leq 80$ MHz $< 200$ mW per chain	5.0
Nest Point	H2E	Advanced LNE	Bluetooth Thread PCIe Gen 1 & 2 Base PCIe Gen 1 & 2 Additional Lane Application Processor 5-10K DMIPS Application Processor $> 10$ K DMIPS Speaker Voice Control Wi-Fi 2.4GHz 256-QAM Wi-Fi 2.4 GHz $\geq 200$ mW per chain up to 2x2 Wi-Fi 5 GHz radio $\leq 80$ MHz $< 200$ mW per chain up to 2x2	4.0

<sup>1</sup> Reported values are based on testing performed at Kyrio Lab per CTA-2049-A and rounded up to nearest 0.5 Watt.

PRODUCT	MODEL	BASE TYPE	FEATURES	AVERAGE IDLE POWER (WATTS) <sup>1</sup>
Google Wifi	GJ2CQ	Advanced LNE	GigE WAN port GigE LAN port Wi-Fi 2.4GHz 256-QAM Bluetooth Application Processor 5-10K DMIPS Wi-Fi 2.4 GHz ≥200 mW per chain up to 2x2 Wi-Fi 5 GHz radio ≤80 MHz <200 mW per chain up to 2x2	4.0
Nest Connect	A0078	Basic LNE	Bluetooth Thread Wi-Fi 2.4 GHz <200 mW per chain up to 2x2	0.5

<sup>1</sup> Reported values are based on testing performed at Kyrio Lab per CTA-2049-A and rounded up to nearest 0.5 Watt.

## Base Type

BASE TYPE	DESCRIPTION
Advanced LNE	Local Network Equipment (LNE) that incorporates multi-port routing, wireless access point, and/or VoIP functionality

## Feature Type

FEATURE TYPE	DESCRIPTION
GigE WAN port	Gigabit Ethernet WAN port
GigE LAN port	Gigabit Ethernet LAN port
PCIe Gen 1 & 2 Base	PCIe Interface Gen 1 & 2 Base (includes first lane)
PCIe Gen 1 & 2 Additional Lane	PCIe Gen 1 & 2 Additional Lane
Wi-Fi 2.4 GHz <200 mW per chain up to 2x2	Wi-Fi 2.4 GHz radio with a conducted output power of less than 200 mW per chain up to 2x2
Wi-Fi 2.4 GHz ≥200 mW per chain up to 2x2	Wi-Fi 2.4 GHz radio with a conducted output power of greater than or equal to 200 mW per chain up to 2x2
Wi-Fi 2.4GHz 256-QAM	Wi-Fi IEEE 802.11n at 2.4GHz supporting 256-QAM
Wi-Fi 5 GHz radio ≤80 MHz <200 mW per chain up to 2x2	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

FEATURE TYPE	DESCRIPTION
Wi-Fi 5 GHz radio 160 MHz ≥200 mW per chain up to 2x2	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
Wi-Fi 6 GHz radio 160 MHz ≥200 mW per chain up to 2x2	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
Bluetooth	Bluetooth, BLE
Thread	IEEE 802.15.4 for Thread
Application Processor 5-10K DMIPS	Application Processor 5-10K DMIPS
Application Processor >10K DMIPS	Application Processor >10K DMIPS
RF chain >2x2 MIMO at 5 GHz ≤80 MHz <200 mW per chain	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
Speaker	Integrated speaker
Voice control	Voice control of digital assistant