

Model: WS-NWU340G/341G

Datasheet V1.0

2023/10/10



FEATURES

- USB-C to Ethernet Adapter run as 5Gbps prepares for now and ready for future-proof.
- USB-C compliant with USB3.0 and downward compatible with USB2.0 / 1.1
- Ethernet compliant with the IEEE 802.3u (10/100Mbps), the IEEE 802.3ab (1000Mbps) and the IEEE 802.3bz (2500/5000Mbps)..
- Plug and play, driver auto installation on Mac OSX and Microsoft Windows. (See Note1)
- Supports Microsoft Wake Packet Detection (WPD) to provide Wake-Up Frame information to the OS. (See Note2)
- Supports 'RealWoW!' technology to enable remote wake-up of a sleeping PC through the Internet. (See Note3)
- Supports jumbo frame length maximum up to 16384 byte.
- Design build in heat dissipation.
- supports Protocol offload. It offloads some of the most common protocols to NIC hardware in order to prevent spurious wake-up and further reduce power consumption.
- Can offload ARP (IPv4) and NS (IPv6) protocols while in D3 power saving state.
- supports the ECMA (European Computer Manufacturers Association) proxy for sleeping hosts standard. The standard specifies maintenance of network connectivity and presence via proxies in order to extend the sleep duration of higher-powered hosts. It handles some network tasks on behalf of the host, allowing the host to remain in sleep mode for longer periods. Required and optional behavior of an operating proxy includes generating reply packets, ignoring packets, and waking the host.

- supports IEEE 802.3az-2010, also known as Energy Efficient Ethernet (EEE). IEEE 802.3az-2010 operates with the IEEE 802.3 Media Access Control (MAC) Sublayer to support operation in Low Power Idle mode. When the Ethernet network is in low link utilization, EEE allows systems on both sides of the link to save power.

Note 1:

For Linux and OSX, the USB SetConfig is handled by the system USB framework (USB host controller driver and/or USB bus driver); this behavior cannot trigger

5G Ethernet Adapter switching to auto-install mode. As a result, the 5G Ethernet Adapter supports auto-install mode in Windows only.

For Linux, 5G Ethernet Adapter supports a built-in in-house/ECM/NCM driver.

For OSX, 5G Ethernet Adapter supports a built-in ECM/NCM driver; users can also install an in-house driver.

Note 2:

Microsoft Wake Packet Detection (WPD) to provide Wake-Up Frame information to the OS, e.g., PatternID, OriginalPacketSize, SavedPacketSize, SavedPacketOffset, etc.

WPD helps prevent unwanted/unauthorized wake-up of a sleeping computer. Refer to the Microsoft Wake Packet Detection (WPD) Interface Specification for details

([http://msdn.microsoft.com/en-us/library/hh440160\(v=vs.85\).aspx](http://msdn.microsoft.com/en-us/library/hh440160(v=vs.85).aspx)).

Note 3:

'RealWoWi' (Wake - On - WAN) Technology allows the 5G Ethernet Adapter to send keep-alive packets to the Wake Server when the PC is in sleeping mode.

'RealWoWi' can pass wake-up packets through a NAT (Network Address Translation) device. This feature allows PCs to reduce power consumption by remaining in low power sleeping state until needed. Users can login into the Wake Server via the Internet to wake the selected sleeping PC.

Registration of Account information to the Wake Server is required on first time use.

SPECIFICATION

Connection To Host	Comes with USB-C cable	
Plug & Play	Latest Driver	/
USB Power Delivery	/	
Ethernet Speed	1x RJ45 10/100/1000/2.5G/5G Mbps Ethernet	Solution: RTL8157
LED	/	
Button	/	
Power Adapter	/	
Operating Systems	Microsoft Windows 10/11 Apple Mac OS 11 or later	

BLOCK DIAGRAM & POWER BUDGET

Interface power budget(MAX)	(W)	System power budget(MAX)	(W)
		RTL8157	2W
Total Power Consumption			2W

PHYSICAL

Product Dimensions	
Product Weight (g)	
Material	
Working Environment	Operation temperature: 0°C~40°C Storage temperature: -10~70°C Operation RH (relative humidity): 10%~90%,noncondensing Storage RH: 10%~90%,noncondensing
Compliance	FCC, CE, ROHS, etc
In the box	1 x 5G Ethernet Adapter 1 x Quick start guide