



TL-NS5R-POE

1G Network Switch with 5 RJ45 - 30W PoE+



The TL-NS5R-POE is designed to take power from a PoE switch or power injector and pass both data and electrical power to a number of PoE-compatible devices via standard twisted pair cables. Equipped with five Gigabit Ethernet ports, this switch can power up to four wireless LAN access points and bridges, VoIP phones or IP video cameras, draw its own power from the PoE switch it is connected to, and deliver network speeds of up to 1G.

Equipped with five auto-sensing 10/100/1000 Mbps RJ45 Gigabit Ethernet ports, the TL-NS5R-POE with its 10G switch fabric provides plenty of performance for your computers and other networking devices.

Total PoE budget for the TL-NS5R-POE is 60 watts when using the included AC power adapter. This brings the maximum per-port power distribution to 17 watts. When using the PD port to provide power, the total power budget is 26 watts (6.5 watts per port). The maximum per-port power usage cannot exceed 30 watts.

Setup

Connect Port 1 to a PoE injector or PoE switch to power as many as four PoE devices. You can use the external power adapter if you do not have a PoE injector or switch or if you require the additional power budget the external power adapter provides.

Front Panel



LEDs

PWR – Power is supplied via the AC adapter or the PD port when lit.

Link/Act – A network link has been established when lit; a network link has been established and data packets are being sent and received when flashing; no network link is established when unlit.

PoE – Port is supplying power to a connected PoE device when lit; port is not supplying power to a connected PoE device when unlit.

Rear Panel



The TL-NS5R-POE is equipped with five Gigabit ports, a power connector and an on/off switch. Each of the four PSE ports (Ports 2-5) can provide up to 30 watts. The product is compliant with IEEE 802.3af and IEEE 802.3at standards and can be powered either by the included adapter or via PoE.

Port 1 - PD (powered device) port. When connected to a IEEE 802.3af/at-compliant PoE injector, midspan or PoE switch, this switch will draw power from that device; the included power adapter does not need to be used. This port can also be connected to any standard Ethernet port.

Ports 2-5 - PSE (power sourcing equipment) ports – compliant with IEEE 802.3af/at – that you can connect to PoE devices such as VoIP phones and network cameras. Any Ethernet-compatible non-PoE device can also be connected to these 4 ports.

DC - The included power adapter can be connected here.

Power

If using this switch as a passthrough power source for PoE devices on Ports 2, 3, 4 and 5, the PD port (1) on this switch can receive up to 30 watts of power from a connected PoE injector or PoE switch. Since this switch uses up to 4 watts of the potential incoming 30, roughly 26 watts is available for the four ports, which is an average of 6.5 watts. That is enough to power as many as four network cameras or VoIP phones (as long as they do not need more power than the remaining watts).

To add a device such as a high-performance Gigabit Wireless AC access point that needs a lot more power, use the included external adapter. When connected, the maximum power budget rises from 26 watts to 60 watts.