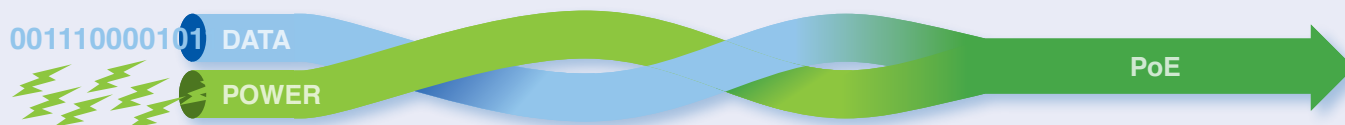


Power over Ethernet (PoE)



Power over Ethernet (PoE) is a method to transmit power and data, up to 100 meters, over a single Ethernet (CAT5e/CAT6/CAT6a) cable. The benefits of PoE include reduced wiring and installation costs and greater flexibility of device placement as equipment no longer needs to be located near power outlets. Red Lion offers a wide range of PoE products including Ethernet switches, midspan injectors and PoE splitters, that support industry-standard IEEE 802.3af (PoE) and/or IEEE 802.3at (PoE+).

PoE Details

	POE (IEEE 802.3af)	POE+ (IEEE 802.3at)
Max power delivered by PSE	15.40 W	34.20 W
Power Available at PD	12.95 W	25.5 W
Voltage Output Range	44-57 VDC	50-57 VDC
Max Output Current	350 mA	600 mA
Power Management	Three levels	Four levels

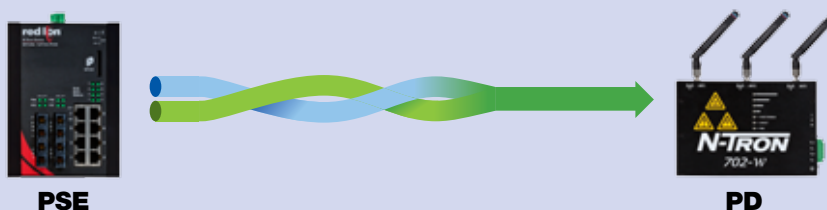
Common PoE Terminology

Power Sourcing Equipment (PSE) is any device that provides or injects power onto a copper Category Ethernet cable.

Powered Device (PD) is a device such as a Wi-Fi radio, camera, display or cellular router that is powered by PoE from a PSE device.

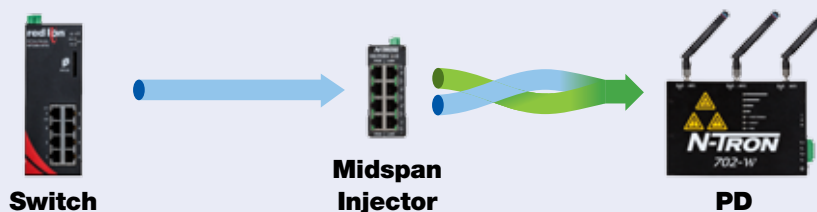
Endspan Switch

An Ethernet switch that combines data and power onto an Ethernet cable for PoE enabled devices.



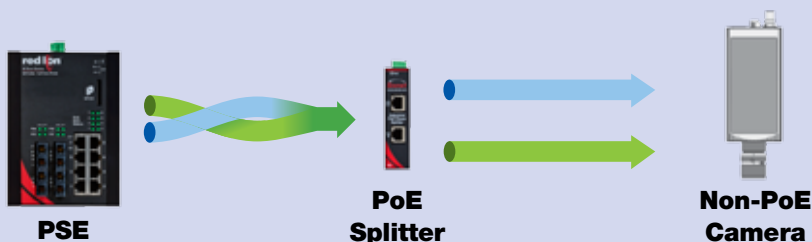
Midspan Injector

An intermediary device that injects PoE power onto an Ethernet cable for PoE enabled devices.



PoE Splitter

A PD device that removes PoE power from an Ethernet cable to power non-PoE enabled equipment.



Industrial PoE Solutions

Red Lion's industrial PoE solutions are designed to transmit power and data over an Ethernet network. PoE networks eliminate the need for running separate wires for power and are ideal in installations with devices such as IP surveillance cameras, wireless access points, IP phones and other PoE-enabled devices. These industrial PoE devices offer a compact, rugged design for harsh, remote locations.

- > Compact, rugged design
- > Switches, injectors and splitters
- > Transmit power and data over Ethernet networks



Compact NT24k-POE Managed PoE Switches

- > IEEE 802.3af/at PoE+ on all copper ports
- > Redundant 22 to 49 VDC power inputs with power boost circuit to provide 240 watts of PoE+ output
- > All copper ports support 10/100/1000Base speeds and IEEE 802.3af/at PoE+ output
- > Available with FX or GX fiber ports, or SFP ports for optional SFP transceivers
- > Extreme environment specifications



MODEL NUMBER	TYPE	TOTAL PORTS	FAST ETHERNET	GIGABIT ETHERNET			MOUNTING & CASE	OPERATING TEMP
			100 FIBER	10/100/1000 COPPER	1000 FIBER	GIG SFP		
NT24K-8TX-POE	Managed	8	-	8 (8 PoE+)	-	-	DIN-Rail – Metal	-40° to 80°C
NT24K-10FX2-POE	Managed	10	2	8 (8 PoE+)	-	-	DIN-Rail – Metal	-40° to 80°C
NT24k-10GX2-POE	Managed	10	-	8 (8 PoE+)	2	-	DIN-Rail – Metal	-40° to 80°C
NT24k-11FX3-POE	Managed	11	3	8 (8 PoE+)	-	-	DIN-Rail – Metal	-40° to 80°C
NT24k-11GX3-POE	Managed	11	-	8 (8 PoE+)	3	-	DIN-Rail – Metal	-40° to 80°C
NT24k-12FX4-POE	Managed	12	4	8 (8 PoE+)	-	-	DIN-Rail – Metal	-40° to 80°C
NT24k-12GX4-POE	Managed	12	-	8 (8 PoE+)	4	-	DIN-Rail – Metal	-40° to 80°C
NT24k-12SFP-DM4-POE	Managed	12	-	8 (8 PoE+)	-	4	DIN-Rail – Metal	-40° to 80°C
NT24k-14FX6-POE	Managed	14	6	8 (8 PoE+)	-	-	DIN-Rail – Metal	-40° to 80°C
NT24k-14GX6-POE	Managed	14	-	8 (8 PoE+)	6	-	DIN-Rail – Metal	-40° to 80°C

SFP ports support 100Base or 1000Base SFP transceivers, sold separately.

Multimode and singlemode options available. FX models available with SC or ST connectors; GX models available with SC style connectors.