



NT24k[®] & 1000 PoE+ Offerings

October 2016

NT24K® & 1000 PoE+ Offerings

- Introduction
- Features & Benefits
 - 1000-POE4+
 - 1008TX-POE+
 - NT24k-16TX-POE
- Model Numbers
- Where to Sell



NT24K® & 1000 PoE Switches & Injectors

- **What:** new network offerings

- 1000-POE4+
- 1008TX-POE+
- NT24k-16TX-POE

- **When:** October 25, 2016

- **Why:** extends Gigabit PoE+ product portfolio to drive operational efficiencies by addressing industry demands with

- a multi-port PoE+ injector
- our first unmanaged Gigabit PoE+ switch
- a 16-port Gigabit PoE+ switch with PoE management features



New PoE Offerings Launch Tuesday, October 25, 2016



What is Power over Ethernet (PoE)?

- **PoE (Power Over Ethernet) is a method to transmit data and power, up to 100 meters, over a single CAT5E/CAT6/CAT6a Ethernet cable**



- **The benefits of PoE include:**
 - Eliminates the need for separate power cabling
 - Reduced wiring and installation costs
 - No need for special electrical permits
 - Greater installation flexibility as devices no longer have to be located near power outlets

Power over Ethernet – Two Standards

	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 range (at PSE)	44-57 VDC	50-57 VDC
Maximum current	350 mA	600 mA
Power management	Three levels	Four levels

IEEE 802.3at (POE+) provides more power for devices like Pan, Tilt and Zoom Cameras

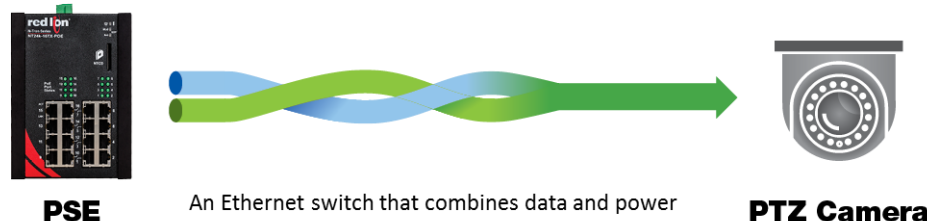
PoE Terminology

- **PSE (Power Sourcing Equipment) is a device that injects power onto a copper Ethernet cable**
 - Midspan injector, like the 1000-POE4+, is an intermediary device that injects PoE power onto an Ethernet cable to power a PoE powered device



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

- An Endspan switch, like the 1008TX-POE+ or NT24k-16TX-POE, combines data and power onto an Ethernet cable to power a device that can accept PoE power (PD)



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

PoE Terminology, cont.

- **PD (Powered Device) is a device is capable of being powered by PoE**
 - IP Cameras
 - VoiP Phones
 - Wireless Access Points
 - Network Audio
 - WiMax Access Points
 - PTZ Cameras
 - Remote Computer Terminals

1000-POE4+ Midspan Injector



1000-POE4+ Midspan Injector

■ 1000-POE4+

- Unmanaged 4-port Gigabit mid-span POE+ injector
- IEEE 802.3af/at compliant
- 4 10/100/1000Base-T(X) RJ-45 ports (data in)
- 4 10/100/1000Base-T(X) RJ-45 POE+ ports (data and power out)
- Supports 30 Watts per port (25.5 Watts at the PD)
- Power status LED
- PoE status indication LED
- Hardened metal DIN-rail mountable enclosure
- Built-in PoE power boost circuit
- 22-49 VDC input voltage
- -40 to 85°C Operating temperature range
- MTBF: > 2 million hours



1008TX-POE+ & NT24k-16TX-POE Switches



1008TX-POE+ Unmanaged Switch

■ 1008TX-POE+

- 8 10/100/1000Base-T(X) ports
- POE+ on 4 ports (25.5 Watts at the PD)
- Built-in PoE power-boost circuit
- 22-49VDC input voltage
- Jumbo frame support
- Up to 16.0 Gb/s maximum throughput
- LED link/activity status indication
- Hardened metal DIN-Rail enclosure
- -40 to 80°C operating temperature
- MTBF: > 2 million hours



NT24k[®]-16TX-POE

- **Layer 2 managed Gigabit switch**
- **16 10/100/1000BaseT(X) RJ45 ports**
- **Managed PoE**
 - IEEE 802.3af/at
 - 240 Watt power budget
- **Redundant power inputs 22-49 VDC**
 - Boosts power to meet PoE output requirements
- **-40°C to 80°C operating temperature**
- **200g shock, 50g vibration tolerance**



NT24k[®] Feature Highlights

- **Advanced PoE management**

- Quick and easy allocation of the switch's 240 Watt PoE power budget to any of its 16 ports (up to 30 Watts per port)

- **Comprehensive networking functionality**

- Auto IGMP configuration
- N-Link[™] and N-Ring[™] technology
- RSTP
- N-View[™] monitoring
- CIP messaging
- Event logging
- IEEE 802.1x with RADIUS remote server authentication
- SNTP (Simple Network Time Protocol)



PoE Port Assignment

PoE Configuration

PoE Status: Enabled

Max Power Budget (Watts): 240

Budgeted Power (Watts): 0 240 (100.0%) 240

Quick Configure: P1-P8 at 30W (Class 4)

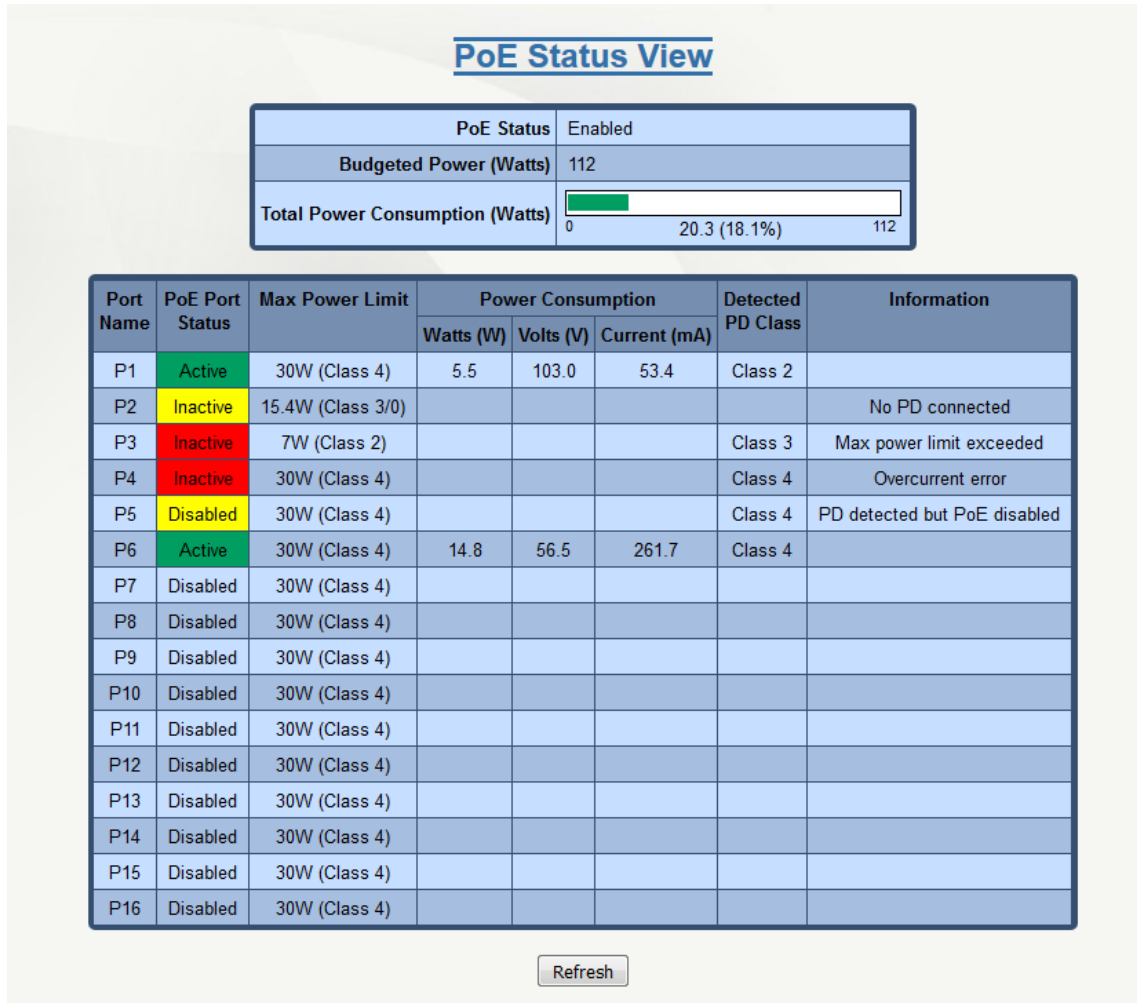
- P1-P8 at 30W (Class 4)
- P9-P16 at 30W (Class 4)
- P1-P16 at 15.4W (Class 3/0)
- P1-P16 at 7W (Class 2)
- P1-P16 at 4W (Class 1)
- All ports disabled

Port Name	PoE Port Status	Power Budget	Class
P1	Enabled	30W	Class 4
P2	Enabled	30W	Class 4
P3	Enabled	30W	Class 4
P4	Enabled	30W	Class 4
P5	Enabled	30W	Class 4
P6	Enabled	30W	Class 4
P7	Enabled	30W	Class 4
P8	Enabled	30W	Class 4
P9	Disabled	30W	Class 4
P10	Disabled	30W	Class 4
P11	Disabled	30W	Class 4
P12	Disabled	30W	Class 4
P13	Disabled	30W	Class 4
P14	Disabled	30W	Class 4
P15	Disabled	30W	Class 4
P16	Disabled	30W	Class 4

- 240 Watt PoE power budget can be assigned to any of the 16 ports
- Quick configuration option allows allocation of the power budget across multiple ports in one step
- For example:
 - Allocate 30 Watts to ports 1-8
 - Allocate 15.4 Watts to ports 1-16

PoE Port Status

Web browser displays PoE status and power consumption by port



NT24k[®]-16TX-POE

- **240 Watt PoE power budget**
 - Can be assigned to any of the 16 ports
- **Quick PoE configuration allocates**
- **Graphical “gas gauge” representation of budgeted power and actual power consumption**



Model Numbers

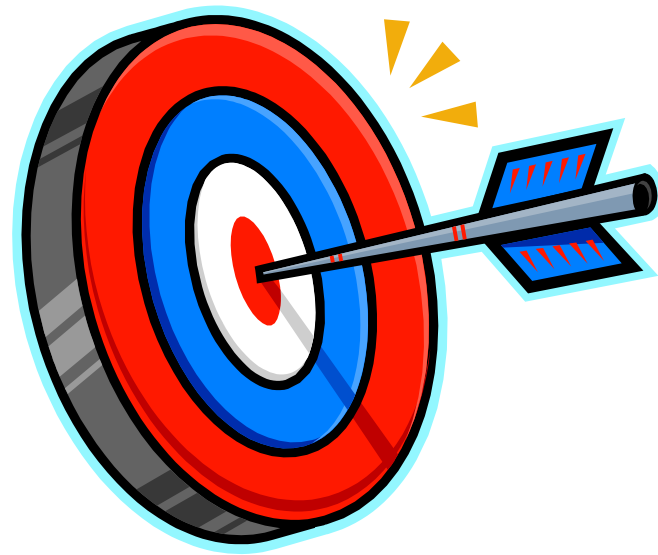
Model Numbers

Model Number	Description
1000-POE4+	4-Port Industrial Gigabit PoE+ Mid-Span Injector (4 10/100/1000Base-T Ports Data In, 4 10/100/1000Base-T Data/PoE+ Out)
1008TX-POE+	8-Port Industrial Unmanaged Gigabit PoE+ Switch (4 10/100/1000Base-T ports, 4 10/100/1000Base-T with PoE+ ports)
NTPS-24-10	DIN-Rail Power Supply 10 Amp @ 24 VDC
1K26-PMK	Panel Mount Kit, 1000 Series

NT24K[®]-16TX-POE Model Numbers

Model Number	Description
NT24K-16TX-POE	16-Port 10/100/1000BaseT Managed PoE+ Industrial Ethernet Switch
NTCD-CFG	NT24k Configuration Recovery Device
NTPS-24-20	DIN-Rail Power Supply 20 Amp @ 24 VDC
NTPS-48-10	DIN-Rail Power Supply 10 Amp @ 48 VDC
NT24K-NM-PMK	NT24k Non-Modular Panel Mount Kit

Where to Sell?



Targeted Applications

- **Security & Surveillance**
- **Oil & Gas**
- **Utilities**
- **Alternative Energy**
- **Transportation**
- **Utilities**
- **Factory Automation**



Thank You. Questions?

For more information

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