

## IP MIGRATION MADE SIMPLE

## NVT PoLRE SWITCH DATA SHEET



**Ethernet and PoE  
over a Single Pair of Wire with  
1,200 ft (365 m) Reach**

### AWARD WINNING PoLRE

The award winning 24 and 48 Port PoLRE (Power over Long Reach Ethernet) switches deliver Ethernet and PoE over a single pair of wire with over 1,200 ft (365 m) reach. This means you can transform your single pair UTP infrastructure into a robust IP backbone with power.

PoLRE was designed to make the migration to IP quick, easy and cost effective by leveraging an existing single pair UTP infrastructure. Benefits include:

- Accelerating your return on investment by reducing infrastructure costs;
- Collapsing planning and deployment time;
- Eliminating infrastructure barriers, risks, disruption and costs; and
- Creating a robust IP platform that is easy to configure, deploy and manage.

Unlike other Ethernet switch technologies, the PoLRE switch offers:

#### Speed, Reach and Power

PoLRE delivers 10 Mbps (symmetrical, full duplex) and PoE over a single pair of UTP with over 1,200 ft (365 m) reach. It is designed to support IP phones and other IEEE compliant devices. No speed degradation with longer reach.

#### Industry Leading PowerWISE® Technology

Power sharing for redundancy, load balancing, AC/DC options, hot swappable power supply and auto-sensing 100-240 VAC delivering 500 to 1,000 Watts of power. PoLRE is one of the most energy efficient switches on the market, consuming less than 17 Watts of power to operate.

#### Managed Switch with Plug-and-Play Option

PoLRE can operate in a transparent mode functioning as a bridge, allowing for plug-and-play deployment to a fully managed switch with high value features specifically designed for the security industry, including:

- Power management by port for easy reset of ports;
- Port MAC locking for higher security and peace of mind; and
- Simple Network Manager, an intuitive Web GUI that makes managing the switch a breeze.

## PoLRE Switch

### At-a-Glance

The PoLRE managed switches are high-performing enterprise grade managed switch that helps maximize your return on investment and reduce your total cost of ownership.

PoLRE transforms the existing two wire infrastructure into a robust IP platform with power ideal for IP phones and other IEEE compliant IP devices.

#### Advantages

- Quick, easy and cost effective IP migration
- Robust enterprise grade switch features ensuring uptime
- Simple GUI interface making configuring, managing and troubleshooting the network a breeze



PoLRE 24 & 48 Port Managed Switch Technical Specifications

Model	PoLRE 24 & PoLRE 48	Interface:	PL-024: 1 RJ21 male telco connector (standard), 24 pairs used PL-048: 2 RJ21 male telco connectors (standard), 48 pairs used
Dimensions	19 inches (48.26cm) x 1U without rack ears: • 1.75" x 17.13" x 9.92" (HxWxD) • 4.45cm x 43.5cm x 25.2cm (HxWxD) • Weight 7.94 lb (3.6 kg)	Downlink (PoE and IP to Adapter)	Maximum Distance: 1500ft (457m) over CAT3 UTP cable, 24 AWG Speed: 10 Mbps (full duplex) Power: 10 Watts
Mounting	Standalone or rack or shelf-mountable 2 brackets included for installation	Management	1 LAN port (MGMT): RJ45, 10/100 Base-T autosensing, IEEE 802.3 1 UART console port: RJ45 to DB9 cable
Processor	Broadcom BCM56018 switch processor, 266MHz	Power Supply	Unit Autosensing 100-240VAC, 50/60 Hz Power output: 500W max at 100VAC, 1000W max at 240VAC
Memory	32MB FLASH, 64MB DDR SDRAM	Power Consumption	PL-024: 16.5W      PL-048: 22W
Interface: Ethernet Uplink (Trunk IP)	Maximum 2 uplinks, each 1Gb/s (full duplex), either: • 2 mini-GBIC ports: 1000 Base-TX/SX/LX/EX/ZX/LHX (determined by SFP, transceiver module installed), Ethernet IEEE 802.3z, fiber optic cable, or • 2 RJ45 ports: 10/100/1000 Base-T autosensing, independent speed selection, Ethernet IEEE 802.3, CAT5e copper cable	Power Injection (PoE)	DC voltage: -54VDC; Endpoint devices must be compliant with IEEE 802.3af
		PowerWISE® Power Sharing	2 male connectors (rear), DC IN and DC OUT: 48VDC to 56VDC
		Operating Temperature	14°F to 122°F (-10°C to 50°C)
		Humidity	10% to 95% (non-condensing) at 95°F (35°C)

Specifications subject to change without notice.

Phylink Adapter Technical Specifications

Model	PL-PA011	Power Supply	48VDC
Dimensions	• 0.71" x 1.1" x 2.56" (HxWxD) • 1.8cm x 2.8cm x 6.5cm (HxWxD) • Weight: 0.78 oz. (22 g)	Power Consumption	0.9W
Interface PoLRE Switch Side	1 RJ11 port: CAT3 unshielded single twisted pair cable. Between the wall plate and adapter, you can reuse the existing silver satin when doing a DNIC/POTS displacement.	Power Injection (PoE)	DC voltage on RJ45 port: • 54V max • 37V when 1200ft (365m) away from its PoLRE Switch powers Class 1, Class 2 and some Class 3 IEEE 802.3af compliant IP devices
Interface Ethernet side: for IP end point device	1 RJ45 port: 10 Base-T	Operating Temperature	32°F to 104°F (0°C to 40°C)
		Humidity	10% to 95% (non-condensing) at 95°F (35°C)

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