



**Fast Ethernet and PoE
over Single-Pair UTP
with up to 1,200ft
(365m) Reach**

PoLRE® Unmanaged Switch

The plug and play PoLRE LPC unmanaged switch makes the modernization to IP devices (IoT) simple, secure and cost-effective. When paired with the PhyLink Adapters, this powerful enterprise-grade switch delivers fast Ethernet and PoE over Single-Pair UTP cable with up to 1,200ft (365m) reach - **that's 4Xs the reach of standard Ethernet switches.**

With the PoLRE LPC, customers are taking full advantage of Modern LAN principles, protecting existing infrastructure assets, and eliminating any need to rip and replace the established Single-Pair UTP cabling. The PoLRE LPC unmanaged switch optimizes network design with advanced interoperability and easy integration into the overall LAN creating a secure, robust path for IP endpoints.

- Accelerate your return on investment by reducing infrastructure costs.
- Simplify your IP modernization, collapsing planning and deployment time.
- Eliminate infrastructure barriers, risks, disruption and costs.
- Create a robust plug-and-play IP platform that is easy to deploy and manage.
- Be environmentally responsible during your IP upgrades.

Speed, Reach and Power

PoLRE LPC delivers 10Mbps symmetrical (full duplex) and PoE over Single-Pair UTP with 1,200ft (365m) reach, providing substantial power to support bandwidth demanding IP cameras easily and reliably.

Simple Deployment

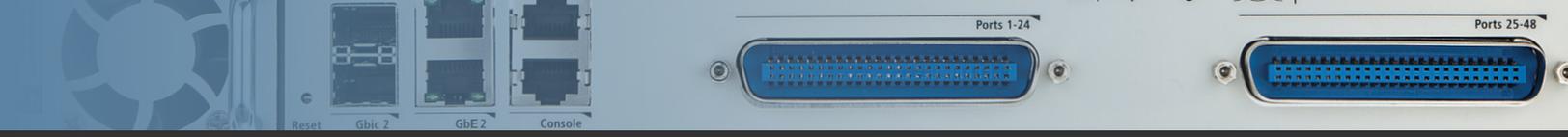
PoLRE LPC comes preconfigured and ready to deploy, making modernization to IP quick and efficient in organizations of every size. Modernizing multiple sites is greatly simplified with a repeatable, predictable and scalable deployment methodology across every location.



AT A GLANCE

(NV-PL-08)

- 8-port plug-and-play long reach PoE switch
- 10Mbps symmetrical (full duplex) and PoE (15W) over single-pair UTP with 1,200ft (365m) reach
- 2 x 100Mbps uplink ports
- 110W external power supply



PoLRE LPC Unmanaged Switch Technical Specifications

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|--|--|
| Model | PoLRE LPC |
| Part Number | NV-PL-08 |
| Dimensions | <ul style="list-style-type: none"> 1.77" x 7.01" x 4.72" (HxWxD) 4.5cm x 17.8cm x 12cm (HxWxD) |
| Weight | (0.679 lbs) 0.308 kg |
| Interface: Ethernet Uplink (Trunk IP) | 2 RJ45 ports: 10/100 Base-T auto-sensing, independent speed selection, Ethernet IEEE 802.3, CAT5 copper cable |
| Interface: Downlink (PoE and IP to Adapter) | 8 x RJ11 Jacks Maximum Distance: 1200ft (365 m) CAT3 UTP cable, 24 AWG Speed: 10 Mbps (full duplex) Power: 15 Watts |

| | |
|------------------------------|---|
| Power Supply | 55VDC 2A (110W) power supply included |
| Power Consumption | 2.9W |
| Power Injection (PoE) | 55VDC; Endpoint devices must be compliant with IEEE 802.3af |
| Operating temperature | 14°F to 115.6°F (-10°C to 45.5°C) |
| Humidity | 10% to 95% (non-condensing) at 95°F (35°C) |
| Mounting | Standalone or rack mount |
| Rack Mount | Model NV-PL-RMEC10  |

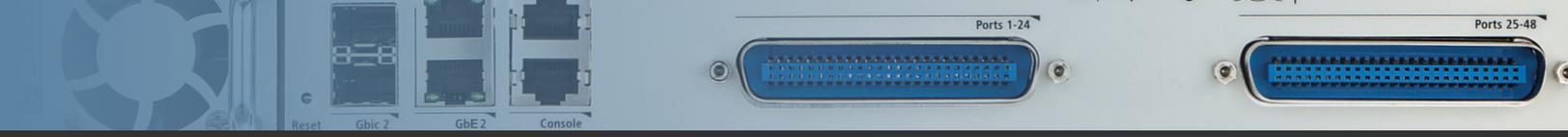
PoLRE LPC Compliance and Agency Approval

| | |
|--------------------|--|
| EMC | Emissions: FCC Part 15, ICES-003, EN 55032:2012, Class A Immunity: EN 55024:2010 |
| Safety | UL 60950-1 2nd Ed 2014-10-14, CAN/CSA C22.2 No. 60950-1-07 2nd Ed 2014-10 IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A1+A2+A11+A12 |
| Environment | RoHS Directive 2011/65 |

Power & Distance Chart

| PoLRE LPC used with PhyLink | | | | | | | |
|-----------------------------|-----------|-------------|--------------|--------------|--------------|----------------|----------------|
| | 20ft (6m) | 200ft (61m) | 400ft (122m) | 600ft (183m) | 800ft (244m) | 1,000ft (305m) | 1,200ft (365m) |
| Cat6 1-Pair | 20 | 19 | 18 | 17 | 15 | 14 | 13 |
| Cat5e 1-Pair | 20 | 19 | 17 | 15 | 13 | 11 | 10 |
| Cat3 1-Pair | 20 | 19 | 17 | 15 | 13 | 11 | 9 |

10Mbit



PoLRE FAMILY ADAPTER

There is one adapter available to pair with the PoLRE family of switches to extend PoE over Single-Pair UTP.

PhyLink



PhyLink Adapter Technical Specifications

| | |
|--|---|
| Model | PhyLink Adapter |
| Part Number | NV-PL-PA-011-6 (sold as 6 pack) |
| Dimensions | <ul style="list-style-type: none"> • 0.71" x 1.1" x 2.56" (HxWxD) • 1.8cm x 2.8cm x 6.5cm (HxWxD) |
| Weight | Weight: 0.78 oz. (22 g) |
| Interface: PoLRE Switch Side | 1 RJ11 port: CAT3 unshielded single twisted pair cable. Between the wall plate and adapter, you can reuse the existing line cord when doing a DNIC/POTS displacement. |
| Interface Ethernet side: for IP endpoint device | 1 RJ45 port: 10 Base-T |

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|------------------------------|--|
| Power Consumption | 0.9W |
| Power Injection (PoE) | DC voltage on RJ45 port: <ul style="list-style-type: none"> • 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 |
| Operating temperature | 32°F to 104°F (0°C to 40°C) |
| Humidity | 10% to 95% (non-condensing) at 95°F (35°C) |
| Casing | Plastic |
| Wattage Delivery | 15W |

PhyLink Adapter Compliance and Agency Approval

| | |
|--------------------|--|
| EMC | Emissions: FCC Part 15, ICES-003, EN 55032:2012 Class B Immunity: EN 55024:2010 |
| Safety | UL 60950-1 2nd Ed, CAN/CSA C22.2 No. 60950-1-07 IEC 60950-1:2005+A1+A2, EN 60950-1:2006+A1+A2+A11+A12 |
| Environment | RoHS Directive 2011/65 |