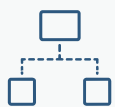




NVT Phybridge PoLRE Family

Ethernet over Single-Pair Switches & Extenders

Use our award-winning PoLRE switches to deliver PoE (15W) over single-pair UTP cabling with up to **1,200ft (365m)** reach.



Leverage any new or existing network infrastructure

Protect proven single-pair UTP investments and simplify deployments.



Support IP and IoT devices up to 4-times farther

Extend connectivity farther than standard Ethernet.



Modernize without risk, disruption, or complexity

Create a robust, secure, and high-performance network.

Award Winning Ethernet over Single-Pair Solutions to Fit Every Need

PoLRE48

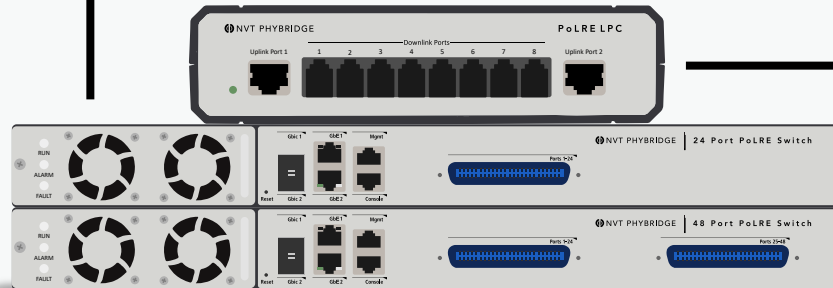
48-Port Ethernet over Single-Pair UTP managed switch

PoLRE24

24-Port Ethernet over Single-Pair UTP managed switch

PoLRE LPC

8-Port Ethernet over Single-Pair UTP unmanaged switch

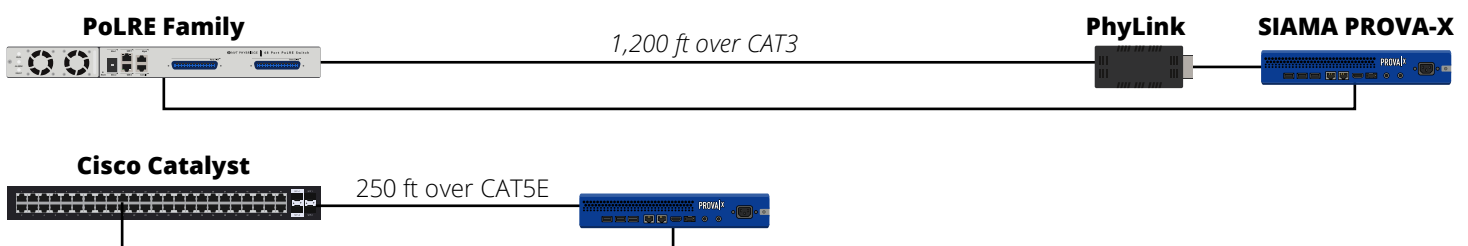


Performance Matters

The PoLRE Family Performance delivers similar results as Cisco at much greater distances, helping teams modernize IP devices over existing single-pair UTP infrastructure.

Metric	PoLRE Family	Cisco Catalyst
Tested Parameters	1,200 ft over CAT3 at 10 Mbps	250 ft over CAT5E at 10 Mbps
Throughput	100%	100%
Frame Loss	0%	0%
Latency Range	85 to 1254 μ s	90 to 1253 μ s
Back-to-Back	2000 to 2000 frames	2000 to 2000 frames

Testing Setup



Customer Success Stories



NOWEDA

A wholesale pharmaceutical distributor modernizes from its outdated analog communication system without business disruption or high network costs.

[Read Full Story](#)



Juniper Communities

Juniper Communities Assisted Living Center modernizes its communication capabilities, leveraging its existing network infrastructure to prevent disruption to residents.

[Read Full Story](#)



Michigan State University

Michigan State University uses PoLRE switches to modernize communication across campus, deploying over 4,000 IP phones while reducing network costs by over \$2 million.

[Read Full Story](#)



Fairmont Princess

Fairmont Princess prevents over 2 tons of e-waste by using existing infrastructure to deploy IP phones.

[Read Full Story](#)

Simplify Switch Management with CCMT

The NVT Phybridge [CCMT Switch Configuration Tool](#) helps teams configure, manage, back up, and upgrade managed switches from one simple application. It is designed to reduce administrative complexity, minimize downtime, and help teams manage multiple switches across multiple locations more efficiently.

Bulk Switch Management

Automate switch management tasks and perform actions across multiple devices to shorten deployment cycles and reduce manual work.

Firmware Updates & Backups

Easily upgrade switch firmware, create backups, and maintain consistent configurations to reduce the risk of human error.

Lower Management Costs

Reduce ongoing switch management costs by up to 80% while improving business continuity and operational response.