

IP MIGRATION MADE SIMPLE

NVT CLEER SWITCH DATA SHEET



**Fast Ethernet and PoE+
over Coax Cable with
2,000 ft (609 m) Reach**

AWARD WINNING CLEER

The award winning CLEER (Coax Leveraged Ethernet Extended Reach) switch is the world's first 24 port Ethernet over coax managed switch. This powerful enterprise grade switch delivers fast Ethernet and PoE+ over coax cable with 2,000 ft (609 m) reach.

CLEER was designed to make the migration to IP quick, easy and cost effective by leveraging an existing coax infrastructure. Benefits include:

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

Unlike other Ethernet over Coax technologies, the CLEER switch offers:

Speed, Reach and Power

CLEER delivers 100 Mbps (symmetrical, full duplex) and PoE+ over coax cable with 2,000 ft (609 m) reach. It is designed to support the most demanding IP Cameras with plenty of bandwidth to spare. No speed degradation with longer distance.

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. CLEER 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

CLEER can either operate in a transparent mode functioning as a bridge, allowing for plug-and-play deployment, or as 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.
- Simple Network Manager, an intuitive Web GUI that makes managing the switch a breeze.

CLEER Switch

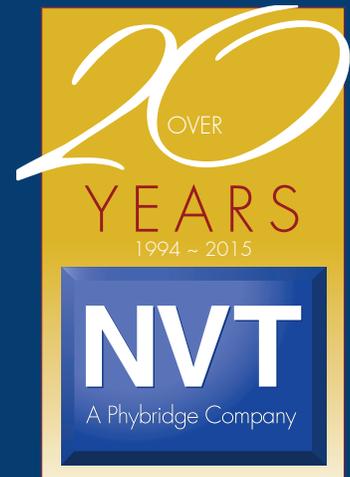
At-a-Glance

The CLEER is a high-performing enterprise grade 24 port Ethernet over Coax managed switch that helps maximize your return on investment and reduce your total cost of ownership.

CLEER transforms the existing coax infrastructure into a robust IP platform with power ideal for IP cameras 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



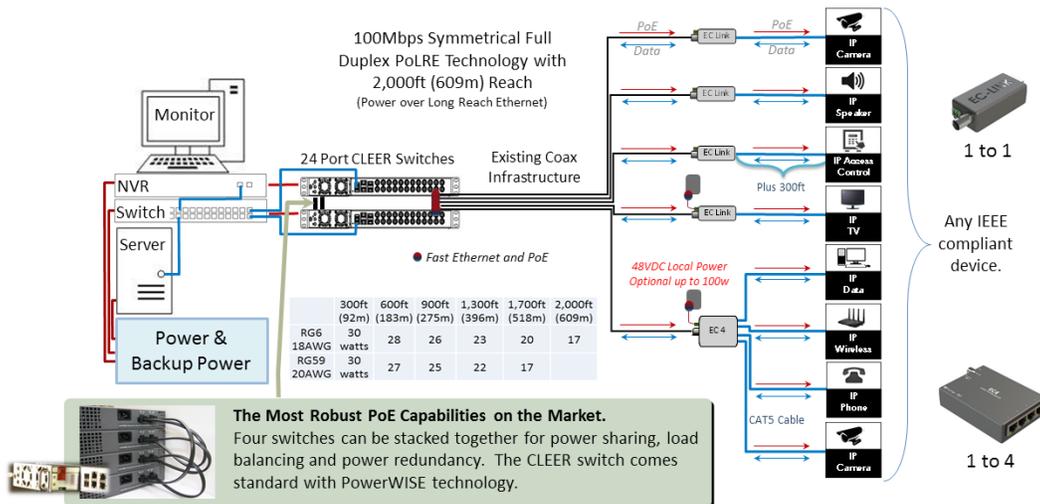
CLEER Switch Technical Specifications

Model	NV-CLR-024
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 lbs (3.6 kg)
Mounting	Standalone, rack or shelf-mountable; 2 brackets included for installation
Processor	Broadcom BCM56018 switch processor, 266MHz
Memory	32MB FLASH, 64MB DDR SDRAM
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/6 copper cable

Interface: Downlink (PoE and IP to Adapter)	24 x BNC Jacks Speed: 100Mbps (full duplex) PoE Power: 30 Watts Maximum (See Appendix) Maximum Distance: • 1500ft (457m) over RG59 COAX Cable • 2000ft (609m) over RG6 COAX Cable 24 x Status LEDs: • Configuration Options: Link Activity / Link / Off
Management	1 LAN port (MGMT): RJ45, 10/100 Base-T autosensing, IEEE 802.3 1 UART console port: RJ45 (RJ45 to DB9 cable included)
Power Supply	Hot-Swappable Power Supply Unit Autosensing 100-240VAC, 50/60 Hz Power Output: 500W max at 100VAC, 1000W max at 240VAC
Power Consumption	16.5W
Power Injection (PoE)	DC voltage: 48VDC to 56VDC Endpoint devices must be compliant with IEEE 802.3af/at
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)

A media converter (EC-Link or EC4) is required at the device end.
Please refer to Media Converter data sheet.

Specifications subject to change without notice.



Appendix A: Power vs Reach

