# ER8500C

8-Channel IP over Coax. Rack Mount Receiver w/Gigabit PoE+ Switch.

The ER8500C is another component of NITEK's exciting EtherStretch solution, allowing for the re-use of existing analog coaxial cable infrastructure to connect and power IP cameras or other Ethernet devices. The ER8500C is a headend receiver that will power and communicate with up to 16 remote transmitters and their devices over coax runs. The ER8500C incorporates an integrated power supply to power each run and a built-in Ethernet switch with Gigabit LAN connectivity. The ER8500C can be controlled and monitored over a built-in web server. The ER8500C can maintain 10/100 Ethernet links over RG-59 or RG-6 coax up to 500m. The ER8500C EtherStretch network extender overcomes cable distance limitations inherent in traditional Ethernet networking.

The ER8500C is a multi-port Ethernet Switch and PoE+ supply adapted for 10/100 communication over coaxial cabling. This layer 2 switch has Gigabit LAN and SFP connections to consolidate communications. When used in conjunction with a NITEK transmitter unit (sold separately), operating distances for 100Mb communication on each coax run can reach 500m/1640 ft. Even longer distances can be reached at 10Mb. The ER8500C receiver provides 802.3at level power to devices at up to 300m and greater than 802.3af power levels up to 500m (see PoE wattage chart for specifics). The ER8500C receiver and NITEK transmitters require very little installation time and minimal configuration. LED connectivity indicators on the receiver show the status of communications and power. More detailed information and high-level control are available via the device's web page.
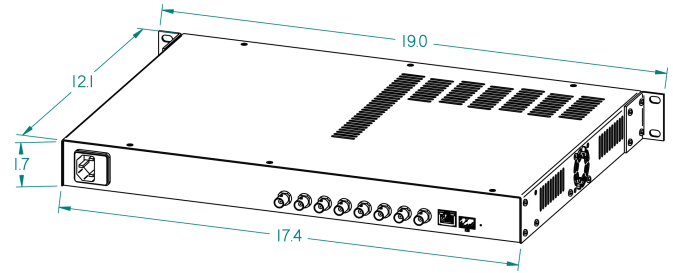
PRODUCT FEATURES

- Provides power for up to 8 remote transmitters & devices
- Includes 8-Port 100Mb Unmanaged Switch & Gigabit SFP and RJ uplink ports
- Web interface for remote monitoring and control
- Extends 10/100 Mbps Full Duplex Ethernet & PoE up to 500 meters over coax
- Supports any IP network device & 4K cameras
- Supports IEEE802.3at (25.5W) and IEEE802.3af (15.4W)
- Fully transparent to the network, no MAC or IP addressing required

- LED indicators for power, network rate, link status, and PoE output includes a built-in power source for all connected devices
- Ground loop isolation
- Easy to set up and install
- Limited Lifetime Warranty
- Designed, tested, manufactured, and supported in the U.S.A.

TECHNICAL SPECIFICATIONS

Max Operating Distance
Network Ports: 100m
Link Port: 500m

Power
Requirements: 110-240VAC/50-60Hz/320 Watt Max
Power Output: Meets IEEE802.3af/at
PoE Source: Built-in power supply

LED Connectivity Indicators
LAN Ports: network rate and link status
Coax Ports: network rate, link status and PoE output

System Latency
System Latency: <1mS over 500m of RG-59

Mechanical Dimensions (L x W x H)
483mm x 152mm x 43mm / 19" x 6.0" x 1.7"
Rack mounting: 1RU x 6.0" D (including tabs and BNCs)

Shipping Dimensions (L x W x H)
Package: 600mm x 215mm x 460mm / 24" x 8.5" x 18"
Weight: 5.5kg / 12lbs

Environmental / Temperature
Operating: 0°C to 50°C / 32°F to 122°F
Storage: -40°C to 75°C / -40°F to 167°F
Humidity: Up to 90% non-condensing

Connectors
Network Ports: 1 RJ45 Connector, 1 SFP port, 1Gb each
Link Ports: 8 BNC Connectors

Rating / Listing
UL: IEC/UL 60950-1
NEMA TS-2: Temperature & Humidity NEMA 2.2.7
Mechanical Vibration NEMA 2.2.8
Mechanical Shock NEMA 2.2.9
Operating Voltage NEMA 2.1.2
Operating Frequency NEMA 2.1.8
Transient Test NEMA 2.1.6 thru 2.1.8

RoHS COMPLIANT 2002/95/EC

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