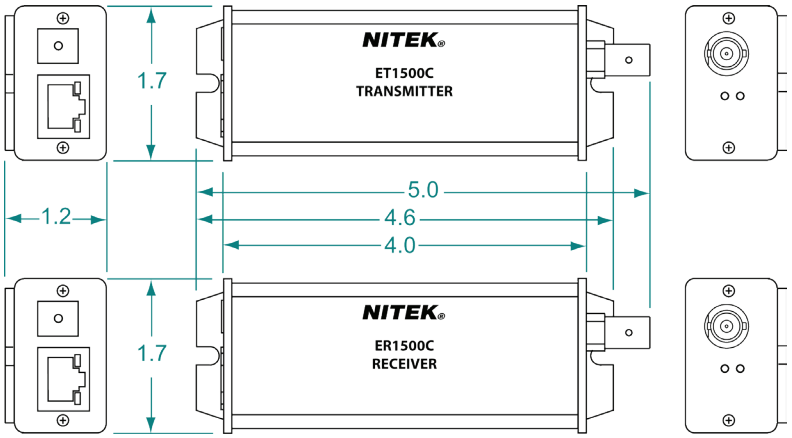
NITEK®
MADE IN THE U.S.A.

EL1500C
Technical Data Sheet

IP over Coax. Set includes: ET1500C Transmitter and ER1500C Receiver.

The EL1500C is a transmitter/receiver set consisting of the ER1500C and the ET1500C. These environmentally hardened products provide 10/100 Ethernet and Power Over Ethernet (PoE) at distances of up to 500m over RG-59 or RG6 coaxial cabling.

At the head end, the ER1500C will connect to the LAN switch for data and request IEEE802.af PoE power. For non-PoE switches, power can be injected at the head end with an optional PS48 power supply. At the far end, the coax will terminate at the ET1500C which will provide 10/100 Ethernet connectivity and available power at that distance. For higher power requirements, power can be re-injected at the power port of the ET1500C with an optional PS48.



PRODUCT FEATURES

- Includes Transmitter and Receiver
- Allows power injection at transmitter far end
- 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
- The optional power supply can insert PoE power for non-PoE switches
- Short circuit, over current, and over-voltage protection
- 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 (each device)
Network Port: 100m
Link Port: 500m

Power (each device)
Requirements: 302.3at/af switch or optical power supply
Power Output: Meets IEEE802.3at/af
PoE Source: Local PSE or optional power supply

LED Connectivity Indicators
Indicators: for power, network rate, link status, and PoE output

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

Mechanical Dimensions (L x W x H)
ER1500C:130mm x 43mm x 28mm / 5.1" x 1.7" x 1.1"
ET1500C: 130mm x 43mm x 28mm / 5.1" x 1.7" x 1.1"

Shipping Dimensions (L x W x H)
Package: 135mm x 195mm x 60mm / 3.3" x 7.6" x 2.2"
Weight: 0.90kg / 2lb

Environmental / Temperature
Operating: -40°C to 75°C / -40°F to 167°F
Storage: -40°C to 75°C / -40°F to 167°F
Humidity: Up to 90% non-condensing
Mean Time Between Failure: >100,000 Hours

Connectors (each device)
Network Port: RJ45 Connector
Link Port: BNC Coax Jack

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

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