# EL1500C

## Ethernet & PoE Extender

## Description

The EL1500C is another component of the NITEK cutting edge EtherStretch line. This Environmentally Hardened Etherstretch solution allows for the utilization of existing cable infrastructure (coax or UTP) to transmit data from IP cameras and other network devices along with PoE power to operate these network devices over the wire for distances up to 500 meters or 1640 feet.

The EL1500C is a system containing a transmitter and a receiver unit that requires very little installation time and absolutely no set up or configuration. The system can quickly turn any ordinary RG59 coax cable into a high speed network communication and PoE path for distances up to 500 meters or 1640 feet.

The EL1500C is transparent to the network thus requiring no IP and MAC addressing. Simply connect your network devices to the networking ports of the transmitter and receiver along with existing cabling and the system begins communicating. LED indicators show the status and speed of network communications and PoE power.
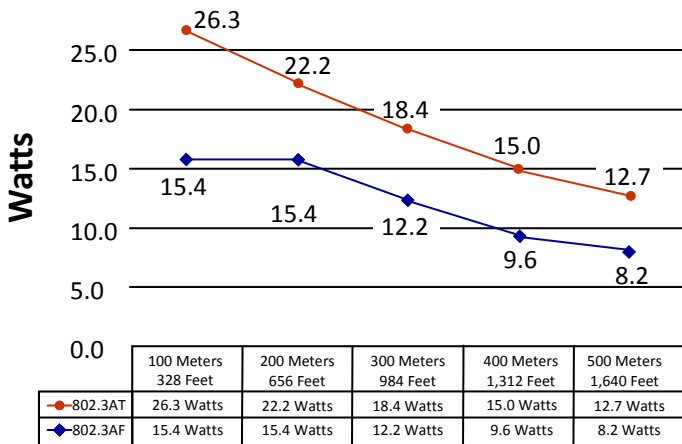
NITEK EtherStretch EL1500C extends network communications to overcome cable distance limitations offering connections to devices in locations traditional networking does not allow. The EL1500C is ideal for retrofitting existing installations. The units are constructed of industrial grade RoHS compliant plated aluminum with a corrosion resistant finish making them very durable.

**Link Port View**

**Top View**

OPTIONAL
Power Input, Class 2
48 to 56VDC, 800mA

NITEK®
Made in USA
EL1500C

Coax Link

10/100
PoE OUT

Link Status
**Network Port**
Power

E325724
c UL US LISTED
I.T.E.

See Installation Manual
for Hookup Instructions
WWW.NITEK.NET

4.0″ (102)

4.6″ (117)

**IP Port View**

**Bottom View**

1.7″ (43)

1.2″ (30)

5.0″ (127)

## Features

- Environmentally hardened—meets NEMA TS-1/TS-2
- Transmits up to distances of 500 meters (1640 feet)
- Supports mega-pixel technology
- Fully transparent to the network
- Supports any network device, including IP cameras
- Supports 10/100 and PoE over RG59 cables
- Easy to install, no set up required
- LED indicators for network signals, link status and power
- Lifetime Warranty
- Optional power supply can insert PoE power for non-PoE switches
- Surge protected inputs
- Ground loop isolation
- Made in the U.S.A.

Patent Pending in USA
Euro Pat App 2779641

### Available PoE Wattage At PoE Device

**Watts**

26.3

22.2

18.4

15.0

12.7

15.4

15.4

12.2

9.6

8.2

25.0

20.0

15.0

10.0

5.0

0.0

| | 100 Meters 328 Feet | 200 Meters 656 Feet | 300 Meters 984 Feet | 400 Meters 1,312 Feet | 500 Meters 1,640 Feet |
|---|---|---|---|---|---|
| 802.3AT | 26.3 Watts | 22.2 Watts | 18.4 Watts | 15.0 Watts | 12.7 Watts |
| 802.3AF | 15.4 Watts | 15.4 Watts | 12.2 Watts | 9.6 Watts | 8.2 Watts |

\* Results charted were calculated using RG59U coaxial cable with a 20AWG center conductor and power sourcing equipment using IEEE 802.3AF standard with starting voltage of 48 volts DC and IEEE 802.3AT standard with starting voltage of 54 volts DC. PoE Switches with internal power and current limits may change individual results.

c UL US LISTED I.T.E.
E325724
IEC/UL 60950-1

CE

RoHS COMPLIANT 2002/95/EC

MADE IN U.S.A.

# TECHNICAL SPECIFICATION

## Network Transmission Device

| | |
|---|---|
| Network Port | RJ45 Connector |
| Link Port | BNC Coax Jack |
| Ethernet | 100BASE-TX Full Duplex |
| 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 2.1.3 |
| | Transient Test NEMA 2.1.6 thru 2.1.8 |
| System Latency | <1mS over 1000ft RG59 |
| Operating Temperature | -40° to 75° C / -40° to 167° F |
| Dimensions | 1.2" x 1.7" x 5.0" including tabs & BNC |
| Shipping Weight | 2 lbs |

## Common Installation Types



Monitor

IP PoE Camera — PoE — Data — RG59U Coaxial Cable — Data — PoE — NVR — PoE Network Switch — P/T/Z Controller



Monitor

IP PoE Camera — PoE — Data — RG59U Coaxial Cable — Data — PoE — NVR — "No PoE" Network Switch — P/T/Z Controller

*PoE is introduced to the system by using a PoE injector (IP1054) in installations where the network switch in not capable of producing power over Ethernet.