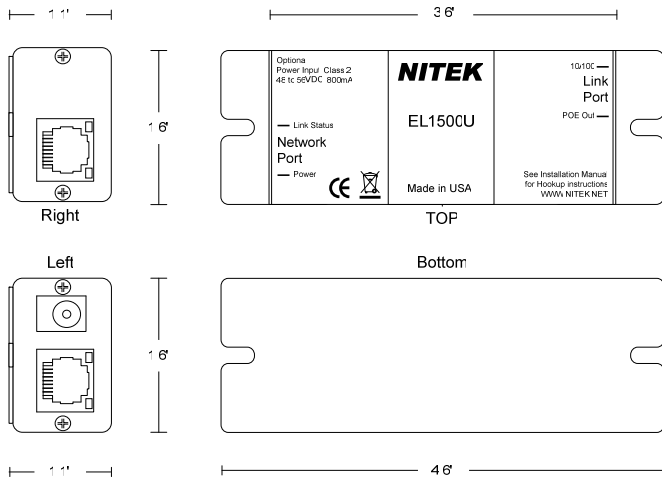# EL1500U

Ethernet & PoE Extender

Description

The EL1500U is another component of NITEK's 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 power (PoE & PoE+) to operate these networked devices over the given wire media.

The EL1500U is a system consisting of a transmitter and a receiver unit that require very little installation time and absolutely no set up or configuration. The system can quickly turn any ordinary CAT5e or CAT6 cable into a high speed network communication and PoE pathway.

The EL1500U is transparent to the network thus requiring no IP and or MAC addressing. Simply connect your network devices to the networking ports of the transmitter and receiver along with the existing cabling and the system begins communicating. LED indicators show the status and speed of network communications and PoE power.
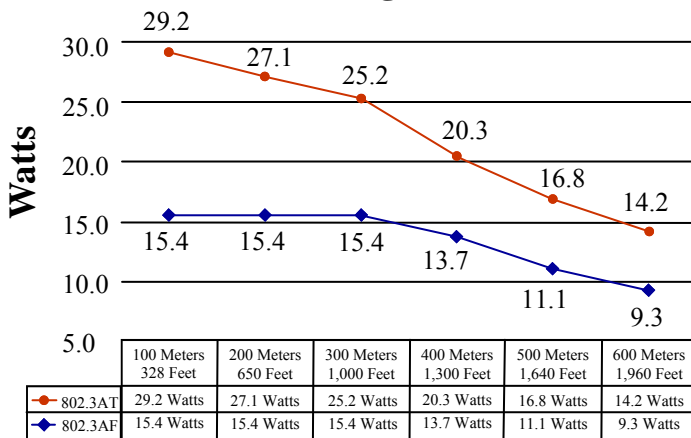
NITEK's EtherStretch EL1500U extends network communications to overcome standard IP cable distance limitations offering connectivity in locations traditional networking doesn't. The EL1500U is ideal for retrofitting existing installations. The units are constructed of industrial grade RoHS compliant plated aluminum with a corrosion resistant finish. making them very durable.

Available PoE Wattage At PoE Device

Watts

	100 Meters 328 Feet	200 Meters 650 Feet	300 Meters 1,000 Feet	400 Meters 1,300 Feet	500 Meters 1,640 Feet	600 Meters 1,960 Feet
802.3AT	29.2 Watts	27.1 Watts	25.2 Watts	20.3 Watts	16.8 Watts	14.2 Watts
802.3AF	15.4 Watts	15.4 Watts	15.4 Watts	13.7 Watts	11.1 Watts	9.3 Watts

* Results charted were calculated using four pair 24awg Cat5e cabling and power sourcing equipment using IEEE 802.3AF standard with starting voltage of 48Vdc and IEEE 802.3AT standard with starting voltage of 54Vdc. PoE Switches with internal power and current limits may change individual results.

Features

- Environmentally hardened – meets NEMA TS-1/TS-2
- Transmits up to distances of 600 meters (1960 feet)
- Supports mega-pixel technology
- Fully transparent to the network
- Supports any network device, including IP cameras
- Supports 10/100 and PoE
- Easy to install, no set up required
- Lifetime Warranty
- LED indicators for network signals, link status and power
- 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 USA
Euro Pat App 2779641

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c UL us LISTED I.T.E.
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	RJ45 Connector
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 1000 ft CAT5e
Operating Temperature	-40° to 75° C / -40° to 167° F
Dimensions	1.1" x 1.6" x 4.6"
Shipping Weight	2 lbs

Several Common Installation Types

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