



CE-4US1TPC

4-Port Ethernet Switch with UTP/Twisted Copper and Coaxial Cable Extender



DESCRIPTION

The CE-4US1TPC is an unmanaged switch that combines four individual Ethernet data channels over a single standard COAX or UTP cable. Symmetric bandwidth assures full bandwidth transmission is maintained over the entire operational distance for both uploads and downloads with virtually zero packet loss. Bandwidth assurance provides the ability to transmit multiple cameras on single camera runs with no information loss. Combined with the CE-(X)COAX series or CE-(X)UTP series multi-port extenders up to 64 cameras can be transmitted to a central location on just 16 cables. The CE-4US1TPC can be powered using standard camera 12 VDC or 24 VAC power supplies. It also can be powered by PoE eliminating the need for remote site extra cost power supplies. Type tested under NEMA-TS2 environmental standards for extended temperature operation from -40F° to +167F° (-40C° to +75C°), the CE-4US1TPC is the perfect solution for extended distance data and power transmission for warehouse, parking lot, campus and casino applications. Certified for use with high-bandwidth megapixel or HD IP cameras, the CE-4US1TPC is tested to network packet performance standards along with major manufacturer compatibility testing. The CopperLine CE-4US1TPC assures you of error free, quality operation. Fixed managed L2 functions include 802.1p Qos, support of 2k MAC addressing, learning and aging and a non-blocking switch fabric.

APPLICATIONS

- Retrofit existing analog CCTV installations to Ethernet-based systems
- CCTV systems for Casinos, airports, school campuses

FEATURES

- 4-port unmanaged switch combines four individual Ethernet data channels over a single standard COAX or UTP cable.
- Extends Ethernet distances: up to 5,000 feet (1524 m) over coax; or up to 3000 feet (914 m) over standard UTP*.
- High Density: High (4) channel count within a very small package; ideal for those installations where equipment cabinet space is limited
- Can be powered using 12 Volts DC, 24 Volts AC or PoE AF/AT power sources.
- High data rate, ideal for the high bandwidth requirements of mega-pixel and HD cameras, multiple IP cameras systems, and cameras requiring jumbo frame transmission
- Symmetric bandwidth provides consistent upload and download with virtually zero packet loss over the total usable distance
- Type tested to RFC-2544 TCP/IP network bandwidth packet transmission standards
- Transceiver cable connectivity tester for fast and simple field diagnostics
- User-selectable data rate for maximum bandwidth and transmission distance utilization
- Complies with all major IEEE standards and RFC network protocols for UDP, TCP/IP, HTTP/HTTPS
- Designed for use in harsh operating environments: extended temperature operation from -40F° to +167F° (-40C° to +75C°) and fully compliant with the environmental requirements of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment
- Rugged extruded aluminum housing; may be wall or stand-alone mounted
- Designed and manufactured in the U.S.A.

SPECIFICATIONS

Electrical

Ethernet Interface: 10/100BaseT
 Ethernet Data Rate: DIP-switch selectable 10/100 Mbps Full data rate/full duplex up to the maximum rated distance

Transmission distance: Coax* 75Ω: 5,000 feet (1524 m) at 10BaseT, or 1,800 feet (548 m) at 100BaseT;
 UTP* Cable: 3,000 feet (914 m) at 10BaseT, or 2,100 feet (640 m) at 100BaseT
 Using 50V PSE power source and external power supplies for extenders

Operating Power: 12 VDC, 24 VAC or POE @ 250 mA, max.

Status Indicating LEDs: Operating Power
 Ethernet: Traffic
 Link Extended Ethernet Traffic

Connectors: Ethernet: 4 × RJ-45
 Coaxial Cable: Female BNC.
 UTP/Twisted Copper Pair: RJ-45
 Operating Power: terminal block

RFC: 2544 TCP/IP Packet Transmission

Standards Compatibility: IEEE 802.3af PoE, IEEE 802.3at PoE, RFC 768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet

Jumbo Frame: Supported

Mechanical

Dimensions (H x W x L) 1.2 × 5.125 × 4.54 in; (30 × 130 × 11. mm)
 Weight: 0.64 lb (290 g)
 Shipping Weight: 0.7 lb (324 g)
 Case Material: Aluminum

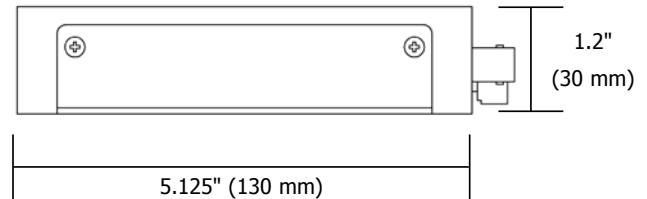
Environmental

Operating Temp: -40F° to +167F° (-40C° to +5C°)
 Storage Temp: -40F° to +176F° (-40C° to 80C°)
 Relative Humidity: 0 to 95%, non-condensing

* Distance figures are obtained using in-house testing mirroring installations. Factors such as coaxial cable quality, the number of connectors in the cable run, the use of PoE, and environmental conditions encountered within the installation may affect the actual transmission distance, and should be taken into consideration. UTP distance is based on 4-pair Cat5 cable. Using 1-pair cable will limit distance.



DIMENSIONAL DRAWING



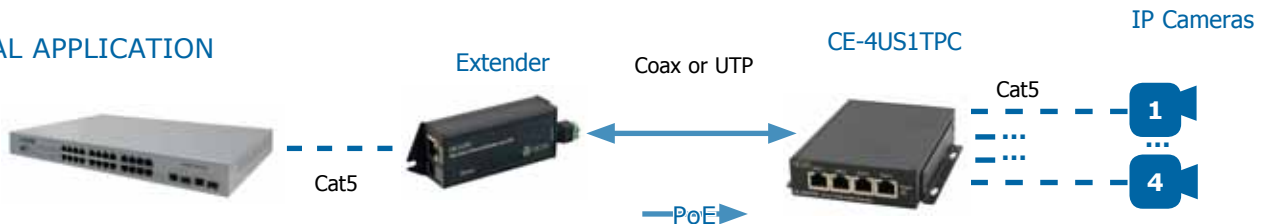
ORDERING INFORMATION

Part Number	Description	Maximum Distance [†]
CE-4US1TPC	4-Port Ethernet Switch with UTP/Twisted Copper and Coaxial Cable Extender	5,000 ft (1524 m)
Accessories	120/240 VAC wall-mount power supply (one each provided with each extender unit)	

[†] Distance figures are based on RG-59U coaxial cable and a 50V PSE PoE power source, and external power supplies for the extenders.

Tested and certified by an independent laboratory for full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line voltage conditions, and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.

TYPICAL APPLICATION



T: 631.952.2288 | F: 631.951.2288 | 1-800-645-9116
 TECH SUPPORT: 1.800.34.VICON (1.800.348.4266) | UK: +44(0) 1489.566300 | www.vicon-security.com
 Product specifications subject to change without notice.