

UTP Passive Transceiver Hub KTS-272-16

Transmit Real-Time Video Over Standard Telephone Wire



KTS-272-16 transceiver

The KTS-272-16 is a 16-channel passive transceiver that is part of GE Interlogix's new, integrated CCTV UTP (unshielded twisted pair) system. Designed to expand the capabilities of the CyberDome™ and traditional camera product lines, this passive transceiver is able to both transmit and receive real-time color or monochrome video up to 1,000 feet* over standard UTP telephone wire. Transmitting over UTP wire, rather than over traditional video cable, provides a reliable, high-quality, flexible and expandable system that uses less conduit space, and can be built into existing wiring

* Maximum recommended distance is 750 ft. for passive to passive devices when used with digital recorders.

topologies.

This 16-input transceiver was designed with unparalleled interference immunity, allowing video signals to coexist in the same wire bundle as telephone, datacom signals, and low-voltage power circuits. There is no degradation in video quality. Video signals are sent without the need to digitize or compress, and without the signal degradation associated with these techniques.

The KTS-272-16 provides built-in transient protection and surge suppression. The ability to transmit over UTP wire means that the KTS-272-16 can be utilized in both new and

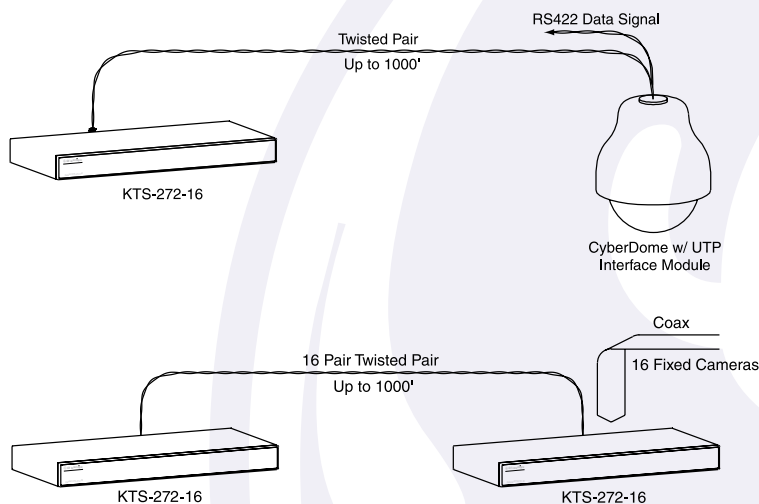
Features

- Real-time video over unshielded twisted-pair
- Receive or transmit up to 1,000 feet*
- 16 video inputs or outputs
- No power required
- Interference immunity
- Built-in transient protection
- Compatible with NTSC, PAL, and SECAM
- Rack-mountable

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existing installations. The unit is housed in an attractive rack-mount enclosure using only one unit of rack space.

The KTS-272-16 passive transceiver has been designed to work with other GE Interlogix transceiver and receiver components as a system, and is guaranteed to function only when paired with GE Interlogix and Network Video Technologies (NVT) compatible products.



System Diagram

GE Interlogix's line of CyberDome cameras come with an optional UTP Interface Module (a passive transceiver) embedded as a part of the camera. Up to 16 CyberDomes can then be paired with a KTS-272-16 passive receiver on the monitor end for the ability to transmit video up to 1,000 feet over twisted-pair wire. When necessary, the KTS-270-16 can be used as both a receiver and transmitter in an application using fixed cameras.



GE Interlogix

Product
Specification

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Technical Specifications

Video

Frequency Response:	DC to 5 MHz
Common-mode/Differential-mode Rejection:	
15 KHz to 5 MHz	60 dB typ
Impedance:	
Coax, female BNC	75 Ω
UTP, Terminal Block	100 Ω

Wire Type

Network Wiring:	(1) UTP per port channel
Wire Gauge:	24 AWG or thicker
Category Type:	2, 3, 4, 5 or better
Impedance:	100 \pm 20 Ω
DC Loop Resistance:	52 Ω per 1,000 ft
Differential Capacitance:	19 pF/ft max
Wire Length (camera to monitor):	Up to 1,000 feet (w/coax)
Coax Cable Impedance:	75 Ω

Power

No external power required

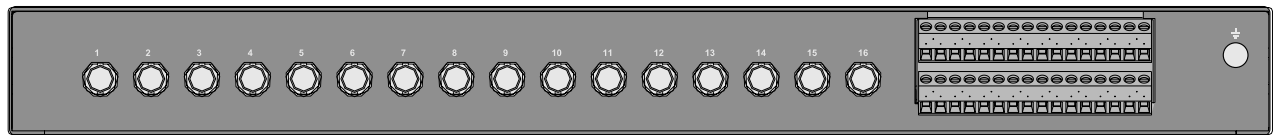
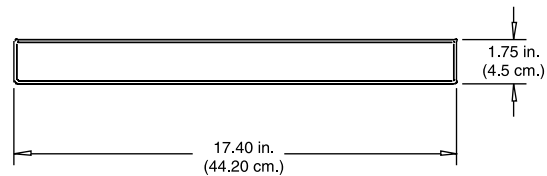
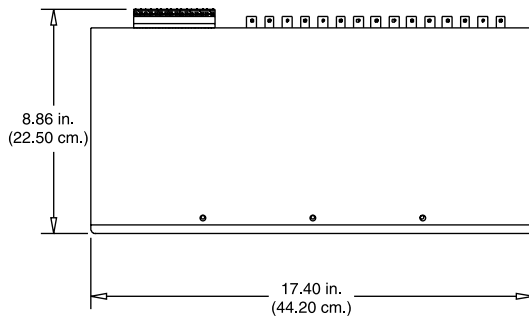
Environmental

Temperature:	0 to +50° C
Humidity (non-condensing):	0 to 95 percent
Transient Immunity:	
6,000 V 1.2 μ S x 50 μ S per ANSI/IEEE 587 C62.41 B3	
3,000 A 8 μ S X 20 μ S when ground screw is bonded to earth ground	

Mechanical

Dimensions	
(excluding brackets and connectors):	17.00 x 1.70 x 8.125 inches (43.0 x 4.5 x 20 cm)
Weight:	5 lb (2.2 kg)
Mounting:	"L" brackets, rack-mount

KTS-272-16 Dimensions and Back Connections



GE Interlogix

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