

1T-CT-641/1T-CT-642

HDMI over Single CAT.5e/CAT.6



Key Features

- HDMI w/3D, 4k(24hz/30Hz), HDCP 1.1 & DVI 1.0
- Uncompressed HDMI signal distribution to 60m/197ft
- Class B (HDBaseT-Lite) technology
- Supports Embedded HDMI Lossless Digital Audio
- Full HD resolution support (1080p@60Hz/36bit)
- UHD support (4k@30Hz)
- HD 3D formats & PC resolutions up to WUXGA
- Supports HDCP Repeater and CEC bypass
- Single Cat.5e/Cat.6 Ethernet cable via RJ45
- Bi-directional infrared remote control extensions
- Supports DVI when using Optional HDMI to DVI Adaptors

1T-CT-641/642 HDMI over Single CAT.5e/CAT.6 System

Overview

1T-CT-641/1T-CT-642 HDMI over Single Cat.5e/Cat.6 system consists of a 1T-CT-641 Transmitter coupled with a 1T-CT-642 Receiver (each purchased separately) which employs HDMI v1.4 capability and the HDBaseT-Lite technology to allow transmission of uncompressed, 1080p high definition television signals over a single Cat.5e or Cat.6 cable. (This is the type cable typically employed for Ethernet computer networks). HDMI v1.4 signals - including 3D and 4k UHD formats - are supported and the system will also allow DVI signal transmission with appropriate DVI to HDMI Cable adapters. In addition, embedded LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio capability is standard. The 1T-CT-641/1T-CT-642 system can achieve signal distribution distances of up to 60 meters (197 feet) for uncompressed HDMI signals without signal degradation. A screw on power adapter cable prevents inadvertent disconnection of power.

Specifications

Video I/O

1T-CT-641 Tx-HDMI Input	1x via HDMI Connector
1T-CT-642 Rx-HDMI Output	1x via HDMI Connector

Cat.5e/Cat.6 Cable I/O

1T-CT-641 Tx – Cat.5e/Cat.6 Output	1x via RJ45 Connector
1T-CT-642 Rx – Cat.5e/Cat.6 Input	1x via RJ45 Connector

Additional I/O

Connectors (per unit)	2x 3.5mm mini-jack (Infrared)
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Supported Signals & Protocols

Industry Standards	HDMI v1.4 (3D, 4k), HDCP, DVI 1.0, Infrared
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Video Performance

Maximum Resolution	HD up to 1080p@60Hz/36bit, UHD to 4k@30Hz, PC to WUXGA
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Audio Support

Formats Supported	LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus & DTS-HD Master
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HDBaseT-Lite Class B Support

Maximum Bandwidth	Uncompressed Video/Audio to 10.2Gbps/300MHz
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Maximum Range

1x 1T-CT-641/642 Tx/Rx System	60m (197 ft.) at 1080p@60Hz 40m (131 ft.) at 4k@30Hz
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Environmental

Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-20° to +60° C (-4° to +140° F)
Storage Humidity	20% to 90%, Non-condensing

Warranty

Limited Warranty	3 Years Parts and Labor
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Regulatory Approvals

Encoder/Decoder Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS

Cable Requirements (T/R)

Ethernet Cable	Highest Quality Single Cat.5e or Cat.6 cable (UTP or STP)
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Mechanical (H-W-D)

1T-CT-641Tx, 1T-CT-642 Rx	22.5x55x76.5mm (0.87x2.17x3.01")
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Weight

1T-CT-641 Transmitter	56g (0.12 lbs.)
1T-CT-642 Receiver	64g (0.14 lbs.)

Power Requirement

External Power Supply	5VDC@2.6A Locking Connector
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Accessories Included

1x Power Adapter	US, UK or Euro
1x User Manual	
1x IR Transmitter or Receiver Extender	

Model Numbers

1T-CT-641	HDMI - Cat.5e/Cat.6 Transmitter
1T-CT-642	HDMI - Cat.5e/Cat.6 Receiver



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Panel Drawings

