1T-CT-647
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
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- HD 3D formats & PC resolutions up to WUXGA
- Supports 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

Overview
1T-CT-647 over Single Cat.5e/Cat.6 system consists of a sever-port for use with 1T-CT-642 Receivers (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-647 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-647 - HDMI Input: 1x via HDMI Connector
- 1T-CT-647 - HDMI Output: 1x via HDMI Connector

### Cat.5e/Cat.6 Cable I/O
- 1T-CT-647 Cat.5e/Cat.6 Output: 7x via RJ45 Connector

### Additional I/O
- Connectors (per unit): 2x 3.5mm mini-jack (Infrared)

### Supported Signals & Protocols
- Industry Standards: HDMI v1.4 (3D, 4k), HDCP, DVI 1.0, Infrared

### Video Performance
- Maximum Resolution: HD up to 1080p@60Hz/36bit, UHD to 4k@30Hz, PC to WUXGA

### Audio Support
- Formats Supported: LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus & DTS-HD Master

### HDBaseT-Lite Class B Support
- Maximum Bandwidth: Uncompressed Video/Audio to 10.2Gbps/300MHz

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

### 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

### 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)

### Mechanical (H-W-D)
- 1T-CT-647 TX: 44x482x179mm (1.75x19.0x7.0”) w/Rack ears

### Weight
- 1T-CT-647 Transmitter: 2122g (4.66 lbs.)
- 1T-CT-642 Receiver: 64g (0.14 lbs.)

### Power Requirement
- External Power Supply: 24VDC@2.7A Locking Connector

### Accessories Included
- 1x Power Adapter: US, UK or Euro
- 1x User Manual
- 1x IR Transmitter or Receiver Extender

### Model Numbers
- 1T-CT-647: HDMI - Cat.5e/Cat.6 Transmitter
- 1T-CT-642: HDMI - Cat.5e/Cat.6 Receiver
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Panel Drawings

HDMI Input  HDMI Output  CAT.5e/6 Output 1-7