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

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<th>Video I/O</th>
<th>Supported Signals &amp; Protocols</th>
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<td>1T-CT-641 Tx-HDMI Input 1x via HDMI Connector</td>
<td>HDMI v1.4 (3D, 4k), HDCP, DVI 1.0, Infrared</td>
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<tr>
<td>1T-CT-642 Rx-HDMI Output 1x via HDMI Connector</td>
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<tr>
<td>Cat.5e/Cat.6 Cable I/O</td>
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<td>1T-CT-641 Tx – 1x via RJ45 Connector Cat.5e/Cat.6 Outp</td>
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<td>1T-CT-642 Rx – 1x via RJ45 Connector Cat.5e/Cat.6 Input</td>
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<td>Additional I/O</td>
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<tr>
<td>Connectors (per unit) 2x 3.5mm mini-jack (Infrared)</td>
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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 1 x 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 1 Year 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-641Tx, 1T-CT-642 Rx 22.5x55x76.5mm (0.87x2.17x3.01")

Weight

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

Power Requirement

External Power Supply SVDC®2.6A Locking Connector

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

1T-CT-641/1T-CT-642 Specification Sheet Version 1.0

www.tvone.com
1T-CT-641/1T-CT-642
HDMI over Single CAT.5e/CAT.6

Panel Drawings

1T-CT-641
TRANSMITTER

1T-CT-642
RECEIVER

CAT.5e/6 Output
HDMI Output

HDMI Input
CAT.5e/6 Input