

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 Adapters

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

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

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

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|-------------------|--|
| 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 |
|-------------------|---|

Maximum Range

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

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|-----------------------|---------------------------------|
| 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

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

Cable Requirements (T/R)

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

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

Weight

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

Power Requirement

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|-----------------------|-----------------------------|
| 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

