

1T-CT-651/1T-CT-652 HDMI over Single Cat.5e/Cat.6

form a product group which employs HDMI v1.4a capability and the HDBaseT 3Play™ 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 v1.4a signals - including 3D and 4K x 2K formats - are supported and the system will also allow DVI signal transmission with appropriate DVI to HDMI Cable adapters. In addition, computer resolutions to WUXGA are supported and embedded 7.1CH LPCM, Dolby TrueHD and DTS-HD Master Audio capability is standard. The 1T-CT-651/1T-CT-652 system can achieve signal distribution distances of up to 100 meters (325 feet) for uncompressed 1080p signals without signal degradation.

Bi-Directional Infrared control is provided via sensors that can be remotely placed several feet from the units themselves. Bi-directional RS-232 signals are also supported. HDCP security is enabled at the version 1.1 level and both the Transmitter and Receiver units feature the unique TV One-task locking power connectors to enhance overall system mechanical security.



Specifications

Video I/O

1T-CT-651 Tx-HDMI Input	1x via HDMI Connector
1T-CT-652 Rx-HDMI Output	1x via HDMI Connector

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

1T-CT-651 Tx – Cat.5e/Cat.6	1x via RJ45 Connector
1T-CT-652 Rx – Cat.5e/Cat.6	1x via RJ45 Connector

Additional I/O

Connectors	2x 3.5mm mini-jack (Infrared) 1x DB-9 (RS-232)
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Signals & Protocols

Industry Standards	HDMI v1.4a (3D, 4K x 2K), HDCP, DVI 1.0, Infrared, RS-232
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Video Performance

Maximum Resolution	1080p@60Hz/48bit or 4K x 2K@24Hz
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Audio Support

Formats Supported	7.1CH, Dolby TrueHD, DTS-HD Master Audio
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HDBaseT Support

Maximum Bandwidth	Uncompressed Video/Audio to 10.2Gbps
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Maximum Range

1T-CT-651/652 Tx/Rx System	100m (325 ft.)
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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

Key Features of the 1T-CT- 651/1T-CT-652

- Resolutions to WUXGA @ 48bits or 4K x 2K
- Uncompressed transmission to 100 meters (325ft)
- Uses HDBaseT performance enhancing technology
- Supports Embedded HDMI Lossless Digital Audio
- Compliant with HDMI v1.4a, HDCP 1.1 and DVI 1.0
- Uses a single Cat.5e/Cat.6 Ethernet cable
- Output resolution follows input
- Bi-directional infrared remote control
- Bi-directional RS-232 signal support
- Locking +5VDC Connectors

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, Twisted Pair	Highest Quality Single Cat.5e or Cat.6 Cable
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Mechanical (H-W-D)

1T-CT-651- 1T-CT-652 HWD	25x102x107mm (0.98x4.0x4.21")
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Weight

1T-CT-651 Transmitter	240g (0.53 lbs.)
1T-CT-652 Receiver	245g (0.54 lbs.)

Power Requirement

External Power Supply	1x 5VDC@2.6A (Each Unit)
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Accessories Included

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

Model Numbers

1T-CT-651	HDMI Over Single Cat.5e/Cat.6 Transmitter
1T-CT-652	HDMI Over Single Cat.5e/Cat.6 Receiver

Panel Drawings

