

## 1T-CT-653/1T-CT-654 HDMI over Single Cat.5e/Cat.6

form a product group that consists of a 1T-CT-653 Transmitter coupled with a 1T-CT-654 Receiver which employs HDMI v1.4 capability and the HDBaseT 5Play™ technology to allow transmission of uncompressed, 1080p high definition television signals over a single Cat.5e or Cat.6 cable (this is the type of cable typically employed for Ethernet computer networks). HDMI v1.4 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, embedded 7.1CH LPCM, Dolby TrueHD and DTS-HD Master Audio capability is standard.

The 1T-CT-653/1T-CT-654 system can achieve signal distribution distances of up to 100 meters (325 feet) for uncompressed 1080p signals without signal degradation.

Control signals can be passed via Ethernet, Infrared or RS-232. POH (Power Over HDBaseT) technology is employed to allow powering of the Receiver from the Transmitter, negating the need for a separate power supply for that unit.



### Key Features of the 1T-CT- 653/1T-CT-654

- 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
- Bi-directional infrared remote support
- Bi-directional RS-232 and Ethernet support
- POH (Power Over HDBaseT) capability for Receiver

## Specifications

<b>Video I/O</b>	
1T-CT-653 Tx-HDMI Input	1x via HDMI Connector
1T-CT-654 Rx-HDMI Output	1x via HDMI Connector
<b>Cat.5e/Cat.6 Cable I/O</b>	
1T-CT-653 Tx – Cat.5e/Cat.6	1x via RJ45 Connector
1T-CT-654 Rx – Cat.5e/Cat.6	1x via RJ45 Connector
<b>Additional I/O</b>	
Connectors (each unit)	1x LAN RJ45, 1x DB9 RS-232, 2x 3.5mm mini-jack (Infrared)
<b>Signals &amp; Protocols</b>	
Industry Standards	HDMI v1.4a, 3D, 4Kx2K, HDCP, DVI 1.0, IR, RS-232, Ethernet
<b>Video Performance</b>	
Maximum Resolution	1080p@60Hz/48bit or 4Kx2K@24Hz
<b>Audio Support</b>	
Formats Supported	7.1CH, Dolby TrueHD, DTS-HD
<b>HDBaseT Support</b>	
Maximum Bandwidth	Uncompressed Video/Audio to 10.2Gbps
<b>Maximum Range</b>	
1T-CT-653/654 Tx/Rx System	100m (325 ft.)
<b>Environmental</b>	
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

<b>Warranty</b>	
Limited Warranty	3 Years Parts and Labor
<b>Regulatory Approvals</b>	
Encoder/Decoder Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
<b>Cable Requirements (T/R)</b>	
Ethernet Cable, Twisted Pair	Highest Quality Single Cat.5e or Cat.6 Cable
<b>Mechanical (H-W-D)</b>	
1T-CT-653 Transmitter	25x102x113mm (0.98x4.0x4.45")
1T-CT-654 Receiver	25x102x107mm (0.98x4.0x4.21")
<b>Weight</b>	
1T-CT-653 Transmitter	252g (0.55 lbs.)
1T-CT-654 Receiver	256g (0.56 lbs.)
<b>Power Requirement</b>	
External Power Supply	1x 24VDC@1.25A
<b>Accessories Included</b>	
1x Power Adapter	US, UK or Euro
1x User Manual	
1x IR Transmitter or Receiver	
<b>Model Numbers</b>	
1T-CT-653	HDMI Over Cat.5e/Cat.6 Transmitter
1T-CT-654	HDMI Over Cat.5e/Cat.6 Receiver

Panel Drawings

