

**1T-CT-611, 1T-CT-612 and 1T-CT-613** constitute a system used to transmit deep color (12 bit) V1.3 HDMI or DVI-D signals at resolutions up to 1920x1200 and 1080p, plus digital, embedded, lossless audio over Cat.5e or Cat.6 cables. The 1T-CT-611 Transmitter and 1T-CT-612 Receiver can achieve signal distribution distances of up to 45 meters (150 feet) for 1080p/8 bit signals and 15 meters (50 feet) for 1080p/12 bit signals. This distance can be doubled with the use of a 1T-CT-613 Repeater. For normal operation, two Cat.6 cables are required, one for the main signal and one for the HDCP/DDC signal. The 1T-CT-611 Transmitter and 1T-CT-612 Receiver feature the unique TV One-task locking power connectors to enhance overall system mechanical security. The 1T-CT-613 Repeater does not require a separate power supply.



## Key Features of the 1T-610 Series

- HDMI v1.3a, DVI-D 1.1, HDCP 1.1 Compliant
- HDTV Resolutions up to 1080p @ 60Hz
- 150' Distance at 1080p/8bit
- 50' Distance at 1080p/12bit (Deep Color)
- Embedded HDMI Lossless Digital Audio
- Zero signal loss via Cat.6 cable
- Ultra Compact Size

## Specifications

### Video I/O

1T-CT-611 Tx-HDMI Input	1x via HDMI Connector
1T-CT-612 Rx-HDMI Output	1x via HDMI Connector

### Cat.6 I/O

1T-CT-611 Tx – Cat.6 Output	2x via RJ-45 (Video & DDC)
1T-CT-612 Rx – Cat.6 Input	2x via RJ-45 (Video & DDC)
1T-CT-613 Repeater I/O	4x via RJ-45 (2x Video & 2x DDC)

### Cat.6 Structure

Video Connector	HDMI Video/Audio Signal
DDC Connector	HDCP/DDC Control Signal

### Supported Protocols

Industry Standards	HDMI 1.3, HDCP 1.1, DVI 1.1
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### Video Performance

Maximum Resolution	Up to 1920x1200, 1080p/60Hz
Video Bandwidth	2.25Gbps

### Maximum Range

1T-CT-611/612 Tx/Rx System	1080p/8-bit: 45m/150'
	1080p/12-bit 15m/50'
1T-CT-613 Repeater	1080p/8-bit: 45m/150'
	1080p/12-bit 15m/50'

### Environmental

Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-10° to +70° C (12° to +158° F)
Storage Humidity	10% to 90%, Non-condensing

### Warranty

Limited Warranty	2 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

CAT.5e or CAT 6	Network Grade, Premium, Shielded
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### Mechanical (H-W-D)

1T-CT-611 Tx, 1T-CT-612 Rx	23x50x62mm (0.9x1.97x2.44")
1T-CT-613 Rptr	23x50x72mm (0.9x1.97x2.84")

### Weight

1T-CT-611 Tx	90g (0.20 lbs)
1T-CT-612 Rx	96g (0.21 lbs)
1T-CT-613 Rptr	106g (0.23 lbs)

### Power Requirement

External Power Supply	5 VDC@2A, Locking DC
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### Accessories Included

1x Power Adapter	US, UK or Euro
1x User Manual	

### Model Numbers

1T-CT-611	HDMI to Cat.6 Transmitter
1T-CT-612	Cat.6 to HDMI Receiver
1T-CT-613	Cat.6 Repeater

### Notes:

Only one (1) 1T-CT-613 Repeater may be used per system  
1T-CT-613 Repeater does not require a Power Supply

## Panel Drawings

