

**1T-CT-520 DVI-D+Audio CAT.5 Extender** provides a means for the transmission of DVI-D signals at resolutions up to 1920x1200 and 1080p, plus either S/PDIF or analog stereo audio, over Cat.5/5E or Cat.6 cable at great distances. The 1T-CT-521 Transmitter, used in conjunction with the 1T-CT-524 Receiver, can achieve distances up to 100 meters (325 feet), while use of the 1T-CT-528 Receiver can increase distances up to 250 meters (800 feet). Achieving such long distances with a DVI-D signal at 1080p requires use of a unique analog/digital hybrid transmission system. For normal operation, one Cat.5/5E or Cat.6 cable is required with the length dependent on the receiver being used.

Both Receivers provide Gain and Equalization adjustments and the 1T-CT-528 Receiver provides additional signal processing via two user selectable DIP switches which further equalize the DVI-D Video and the audio signals. The 1T-CT-521 Transmitter provides EDID capability as a standard feature. The system is fully compatible with all DVI 1.0 signals and seamlessly integrates the selected audio signal into the signal path. The unique TV One-task locking power connectors are used to enhance overall system security.



## Key Features of the 1T-520 Series

- DVI-D Version 1.0 Compliant
- Resolutions to 1920x1200, 1080p @ 60Hz
- Maximum Distance depends upon Receiver  
1T-CT-524 up to 100 meters (325 feet)  
1T-CT-528 up to 250 meters (800 feet)
- S/PDIF or Analog Audio Transmission
- Gain and EQ Adjustments
- 1T-CT-521 Transmitter provides EDID Feature
- Locking power supply for security

## Specifications

### Video I/O

|                          |                        |
|--------------------------|------------------------|
| 1T-CT-521 Tx - DVI-D In  | 1x via DVI-I Connector |
| 1T-CT-524 Rx - DVI-D Out | 1x via DVI-I Connector |
| 1T-CT-528 Rx - DVI-D Out | 1x via DVI-I Connector |

### Audio I/O

|                           |                       |
|---------------------------|-----------------------|
| S/PDIF – All Units        | 1x Coax               |
| Analog Stereo – All Units | 1x 3.5mm Stereo Audio |

### UTP Outputs I/O

|                        |              |
|------------------------|--------------|
| 1T-CT-521 Tx – UTP Out | 1x via RJ-45 |
| 1T-CT-524 Rx – UTP In  | 1x via RJ-45 |
| 1T-CT-528 Rx – UTP In  | 1x via RJ-45 |

### Video Performance

|                    |                           |
|--------------------|---------------------------|
| Maximum Resolution | Up to 1920x1200, 1080p/60 |
| Video Bandwidth    | 1.65Gbps                  |

### Adjustments

|               |                       |
|---------------|-----------------------|
| 1T-CT-524/528 | Equalization and Gain |
|---------------|-----------------------|

### Maximum Range

|           |                     |
|-----------|---------------------|
| 1T-CT-524 | 100 meters (325 ft) |
| 1T-CT-528 | 250 meters (800 ft) |

### 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 |
|------------------|-------------------------|

### Regulatory Approvals

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

### Cable Requirements

|                   |                        |
|-------------------|------------------------|
| CAT.5/5E or CAT 6 | Network Grade, Premium |
|-------------------|------------------------|

### Mechanical (H-W-D)

|            |                               |
|------------|-------------------------------|
| All Models | 30x123x125mm(1.18x4.84x"4.92) |
|------------|-------------------------------|

### Weight

|            |                 |
|------------|-----------------|
| All Models | 700g (1.54 lbs) |
|------------|-----------------|

### Power Requirement

|                       |                      |
|-----------------------|----------------------|
| External Power Supply | 5 VDC@2A, Locking DC |
|-----------------------|----------------------|

### Accessories Included

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

### Model Numbers

|           |                                |
|-----------|--------------------------------|
| 1T-CT-521 | Transmitter                    |
| 1T-CT-524 | Receiver – Up to 100m (325 ft) |
| 1T-CT-528 | Receiver – Up to 250m (800 ft) |

## Panel Drawings

