1T-CT-653/1T-CT-654A
HDMI over Cat.6 with LAN/IR/RS232

**Key Features**
- HDMI 1.4a, HDCP 1.1 & DVI 1.0
- Uncompressed HDMI signal distribution to 100m/325ft
- Uses HDBaseT performance enhancing technology
- Supports Embedded HDMI Lossless Digital Audio
- Full HD resolution support (1080p@60Hz/36bit) & 3D
- UHD support (4k@30Hz)
- PC resolutions up to WUXGA
- Supports HDCP Repeater and CEC bypass
- Uses a single Cat.5e/Cat.6 Ethernet cable
- Bi-directional infrared remote support
- Bi-directional RS-232 and Ethernet support
- Power over HDBaseT (PoH) or local power input
- Compatible with CORIOmax HDBaseT Output Modules

**Specifications**

<table>
<thead>
<tr>
<th>Video I/O</th>
<th>1T-CT-653 Tx-HDMI Input</th>
<th>1 via HDMI Connector</th>
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<tbody>
<tr>
<td></td>
<td>1T-CT-654A Rx-HDMI Output</td>
<td>1 via HDMI Connector</td>
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<tr>
<td>Cat.5e/Cat.6 Cable I/O</td>
<td>1T-CT-653 Tx – Cat.6</td>
<td>1x via RJ45 Connector</td>
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<tr>
<td></td>
<td>1T-CT-654A Rx – Cat.6</td>
<td>1x via RJ45 Connector</td>
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<tr>
<td>Additional I/O</td>
<td>1x LAN RJ45, 1x DB9 RS-232, 2x 3.5mm mini-jack (Infrared)</td>
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<tr>
<td>Connectors (each unit)</td>
<td></td>
<td></td>
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<tr>
<td>Signals &amp; Protocols</td>
<td>HDMI v1.4 (3D, 4k), HDCP, DVI 1.0, IR, RS-232, Ethernet</td>
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<tr>
<td>Industry Standards</td>
<td></td>
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<tr>
<td>Maximum Resolution</td>
<td>HD up to 1080p@60Hz/36bit, UHD to 4k@30Hz, PC to WUXGA</td>
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<tr>
<td>Video Performance</td>
<td></td>
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<tr>
<td>Audio Support</td>
<td>LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus &amp; DTS-HD Master</td>
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<td>Formats Supported</td>
<td></td>
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<tr>
<td>HDBaseT Support</td>
<td>Maximum Bandwidth</td>
<td>10.2Gbps/300MHz</td>
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<tr>
<td>Maximum Range</td>
<td>up to 1920x1200@60Hz</td>
<td>100m (325 ft) using Cat.5e/6</td>
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<td></td>
<td>up to 3840x2160@30Hz</td>
<td>70m (230 ft) using Cat.5e/6</td>
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<tr>
<td></td>
<td></td>
<td>100m (325 ft) using Cat.6a/7</td>
</tr>
<tr>
<td>Cable Requirements (T/R)</td>
<td>Ethernet Cable, UTP or STP</td>
<td>Cat.5e, Cat.6, Cat.6a or Cat.7 cable</td>
</tr>
</tbody>
</table>

**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

**Warranty**
- Limited Warranty: 3 Years Parts and Labor

**Regulatory Approvals**
- Encoder/Decoder Unit: FCC, CE, RoHS
- Power Supply: UL, CUL, CE, PSE, GS, RoHS

**Mechanical (H-W-D)**
- 1T-CT-653 Transmitter: 25x102x113 mm (0.98x4.0x4.45")
- 1T-CT-654A Receiver: 25x102x107mm (0.98x4.0x4.21")

**Weight**
- 1T-CT-653 Transmitter: 252g (0.55 lbs.)
- 1T-CT-654A Receiver: 256g (0.56 lbs.)

**Power Requirement**
- 1T-CT-653 Transmitter: 24VDC Locking Connector
- 1T-CT-654A Receiver: 5VDC Locking Connector

**Accessories Included**
- 1x Power Adapter
- 1x User Manual
- 1x IR Transmitter or Receiver

**Model Numbers**
- 1T-CT-653: HDMI - Cat.6 Transmitter
- 1T-CT-654A: HDMI - Cat.6 Receiver

1T-CT-653/1T-CT-654A Specification Sheet Version 2.0
www.tvone.com
1T-CT-653/1T-CT-654A
HDMI over Cat.6 with LAN/IR/RS232

Panel Drawings

1T-CT-653
CAT5e/6 to HDMI Transmitter with LAN/IR/RS232

1T-CT-654A
CAT5e/6 to HDMI Receiver with LAN/IR/RS232