## 1T-CT-653/1T-CT-654A

## HDMI over Cat.6 with LAN/IR/RS232

## **C**HDB<sub>4</sub>T™

#### **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



## 1T-CT-653/654A HDMI over Cat.6 System

#### Overview

1T-CT-653/1T-CT-654A HDMI over Single Cat.6 system consists of a 1T-CT-653 Transmitter coupled with a 1T-CT-654A Receiver (each purchased separately) which employs HDMI v1.4 capability and HDBaseT 5Play™ technology to allow transmission of uncompressed, 1080p high definition television signals over a single Cat.5e or Cat.6 cable. HDMI v1.4 signals including 3D and 4k UHD formats - are supported and the system will also allow DVI signal transmission with appropriate DVI to HDMI Cable adapters. In addition, embedded LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio capability is standard. Control signals can be passed via Ethernet, Infrared or RS-232.

The 1T-CT-653/1T-CT-654A system can achieve signal distribution distances of up to 100 meters (325 feet) for uncompressed 1080p signals without signal degradation. Power over HDBaseT (PoH) support allows the Receiver to be powered by a PoH Transmitter (1T-CT-653, MX-8488) if a local power connection is not available.

## **Specifications**

#### Video I/O

1T-CT-653 Tx-HDMI Input 1T-CT-654A Rx-HDMI Output

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

1T-CT-653 Tx - Cat.6 1T-CT-654A Rx - Cat.6

#### Additional I/O

Connectors (each unit)

#### Signals & Protocols

Industry Standards

#### Video Performance

Maximum Resolution

### **Audio Support**

Formats Supported

#### **HDBaseT Support**

Maximum Bandwidth

#### Maximum Range

up to 1920x1200@60Hz up to 3840×2160@30Hz

### Cable Requirements (T/R)

Ethernet Cable, UTP or STP

1x via HDMI Connector 1x via HDMI Connector

1x via RJ45 Connector 1x via RJ45 Connector

1x LAN RJ45, 1x DB9 RS-232, 2x 3.5mm mini-jack (Infrared)

HDMI v1.4 (3D, 4k), HDCP, DVI 1.0, IR, RS-232, Ethernet

HD up to 1080p@60Hz/36bit, UHD to 4k@30Hz, PC to WUXGA

LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus & DTS-HD Master

10.2Gbps/300MHz

100m (325 ft.) using Cat.5e/6 70m (230 ft.) using Cat.5e/6 100m (325 ft.) using Cat.6a/7

Cat.5e, Cat.6, Cat.6a or Cat.7 cable

#### Environmental

Operating Temperature Operating Humidity Storage Temperature Storage Humidity

#### Warranty

Limited Warranty

#### **Regulatory Approvals** Encoder/Decoder Unit

Power Supply Mechanical (H-W-D)

1T-CT-653 Transmitter 1T-CT-654A Receiver

1T-CT-653 Transmitter 1T-CT-654A Receiver

#### Power Requirement

1T-CT-653 Transmitter 1T-CT-654A Receiver

#### Accessories Included

1x Power Adapter 1x User Manual 1x IR Transmitter or Receiver

## **Model Numbers**

1T-CT-653 1T-CT-654A 0° to +40° C (+32° to +104° F) 20% to 90%, Non-condensing

-20° to +60° C (-4° to +140° F) 20% to 90%, Non-condensing

3 Years Parts and Labor

FCC, CE, RoHS

UL, CUL, CE, PSE, GS, RoHS

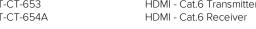
25x102x113 mm (0.98x4.0x4.45") 25x102x107mm (0.98x4.0x4.21")

252g (0.55 lbs.) 256g (0.56 lbs.)

24VDC Locking Connector 5VDC Locking Connector

US, UK and Euro

HDMI - Cat.6 Transmitter





# 1T-CT-653/1T-CT-654A

HDMI over Cat.6 with LAN/IR/RS232

## **C**HDB<sub>x</sub>T™

**Panel Drawings** 

