



HDMI Distribution Amplifiers

Models 1T-DA-654, 1T-DA-658, 1T-DA-664

1T-DA-654, 1T-DA-664, 1T-DA-658 HDMI Distribution Amplifiers provide multiple outputs from a single HDMI input for distribution to devices capable of receiving and/or displaying such signals. The 1T-DA-654 provides 4 HDMI compliant outputs, the 1T-DA-658 provides 8 HDMI compliant outputs and the 1T-DA-664 provides 4 HDMI compliant outputs plus separate audio distribution via integral 1x4 analog stereo and 1x4 S/PDIF coaxial audio. Each product in this series is compatible with HDMI v1.3 specifications; a cutting-edge technology that supports Deep Color (10-bit and 12-bit) video plus new, lossless Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio digital audio. In addition, all devices exhibit high bandwidth (up to 225MHz - 2.25Gbps) and they provide signal amplification and equalization for high performance processing of audio and video allowing the signals to travel great distances without quality loss.

A rear panel switch allows the EDID reference to be selected from either a connected display on a priority basis or from an internal resolution look-up table. All DAs can also be cascaded for expanded functionality and all HDMI Distribution Amplifiers can function as DVI Distribution Amplifiers using cable adapters. An optional Rack Mounting kit provides for mounting either one or two of the 1T-DA-654 or 1T-DA-664 HDMI DAs in a 19" Rack. Rack Ears are included with the 1T-DA-658 for mounting a single unit in a standard 19" rack.



Key Features of the 1T-DA-600 HDMI Series

- Multiple HDMI Outputs from a single source
- HDMI 1.3, HDCP 1.1, DVI 1.0 Compliant
- Distribution of 4 Outputs. (1T-DA-654 & 1T-DA-664)
- Distribution of 8 Outputs (1T-DA-658)
- Separate 1x4 Stereo & 1x4 S/PDIF (1T-DA-664)
- Dolby Digital +, Dolby® Digital TrueHD & DTS-HD
- 10/12 bit Color Depth Display
- PC & HDTV resolutions – Up to 1920x1200, 1080p
- Supports DVI with Optional HDMI to DVI Adaptors
- Signal Equalization feature for longer cable runs
- Supports Automatic Discovery of Monitor EDID
- Locking DC Connectors for security
- Optional Rackmount Kits 1T-DA-654, 1T-DA-664
- Rack Ears included with 1T-DA-658

Specifications

Video Inputs

HDMI (All Models) 1x via HDMI Connector

Video Output

HDMI-1T-DA-654 & 664 4x via HDMI Connector

1T-DA-658 8x via HDMI Connector

Separate Audio (1T-DA-664 Only)

Format Analog Stereo and S/PDIF

Analog Stereo In 1x via Stereo 3.5mm Mini Stereo

Analog Stereo Out 4x via Stereo 3.5mm Mini Stereo

S/PDIF In 1x Via RCA Coaxial

S/PDIF Out 4x Via RCA Coaxial

Audio Bandwidth 20Hz to 20 KHz

Audio Impedance 20KΩ Stereo, 75Ω S/PDIF

Audio Levels Unity, Nominal, S/PDIF .5-1V p-p

General

Freq. Bandwidth 2.25Gbps (HDMI Single Link)

Color Depth 10/12 bit Color Depth Display

PC/DVI resolutions Up to 1920x1200

HDTV Formats 480p, 576p, 720p, 1080i, 1080p

SDTV Formats 480i, 576i

Compliance HDMI V1.3, HDCP V1.1, DVI 1.0

Signal Equalization Internal

Maximum Distances

Source to DA 20 meters (60') for 1080p/8-bit

15 meters (45') for 1080p/12-bit

DA to Display 15 meters (45') for 1080p/8-bit

10 meters (30') for 1080p/12-bit

EDID Processing

Discovery Automatic or Internal Reference

Warranty

Limited Warranty 3 Years Parts and Labor

Mechanical

1T-DA-654/664 (H-W-D) 41.5x218x147mm (1.6x8.6x5.8")

1T-DA-658 (H-W-D) 44x436x160mm (1.75"19.0"x6.3")

1T-DA-654/664 Weight 0.85 kg (1.88lbs)

1T-DA-658 Weight 2kg (4.4 lbs)

Environmental

Operating Temperature 0° to +50°C (+32° to +122°F)

Operating Humidity 10% to 90%, Non-condensing

Storage Temp. 0° to +50°C (+32° to +122°F)

Storage Humidity 10% to 90%, Non-condensing

Power Requirement

Ext. Power Supply 5VDC@2A for 1T-DA-654/664

5VDC@5A for 1T-DA-658

Regulatory Approvals

DVI DAs FCC, CE, RoHS

Power Supply UL, CUL, CE, PSE, GS, RoHS

Accessories Included

1x AC Power Adapter US, UK or Euro

1x Set Rackmount Ears 1T-DA-658 only

1x Instruction Manual

Locking Cable Kit Hex adapters to accommodate locking HDMI connectors

Optional Rackmount Kits

RM-220 For 1T-DA-654/664 (Single/Dual)

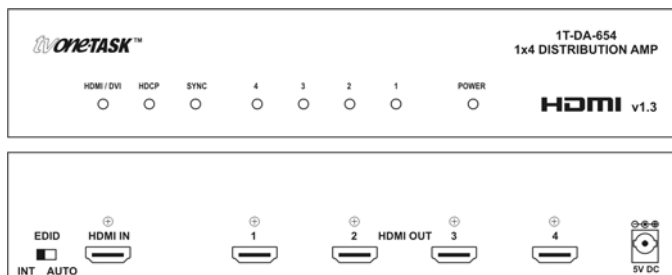
Product Item Numbers

1T-DA-652 1x4 HDMI DA

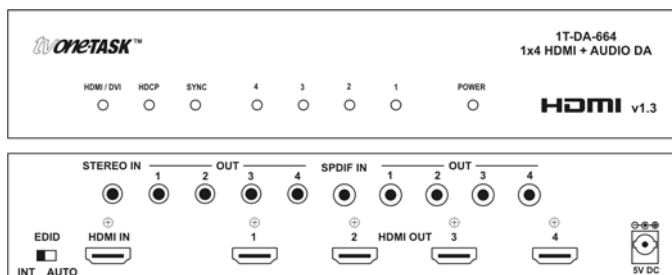
1T-DA-664 1x4 HDMI DA w/Separate Audio

1T-DA-658 1x8 HDMI DA

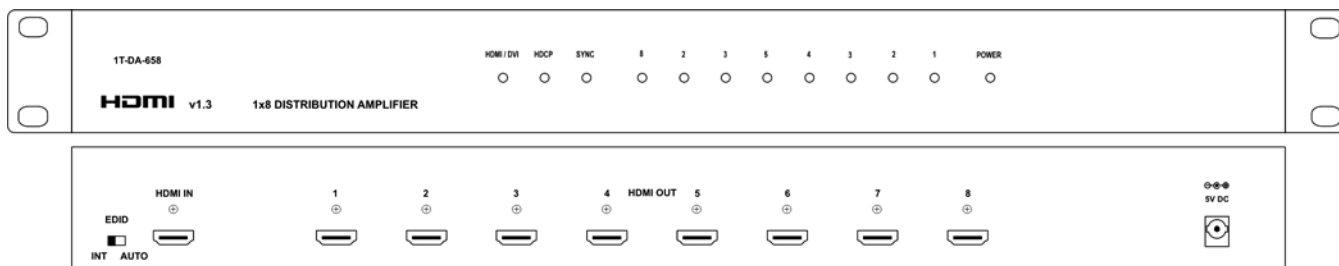
Panel Drawings



1T-DA-654



1T-DA-664



1T-DA-658