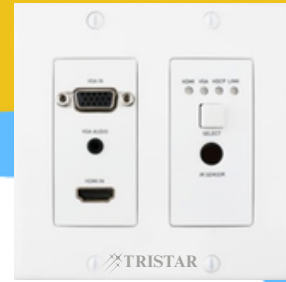




Wall Plate 4K HDBaseT Transmitter

TRI-AVC-DWT-5020



Product Overview

TRI-AVC-DWT-5020 features a US 2-gang decora form and can be installed on the wall and on the floor. It consists of one HDMI and one VGA inputs with a 3.5mm audio connector and extends 4K@60 4:2:0 video, along with power, RS232 and IR up to 70m over a single Cat 6a/7 cable to HDBaseT receiver.

CR-uCAT5 DWT offers ideal solutions for homes, offices, digital entertainment centers, control centers, conference rooms, schools and corporate training environments, where require the signal switching between VGA and HDMI sources and transmission over long distances.



4K@60Hz



Automatic switching

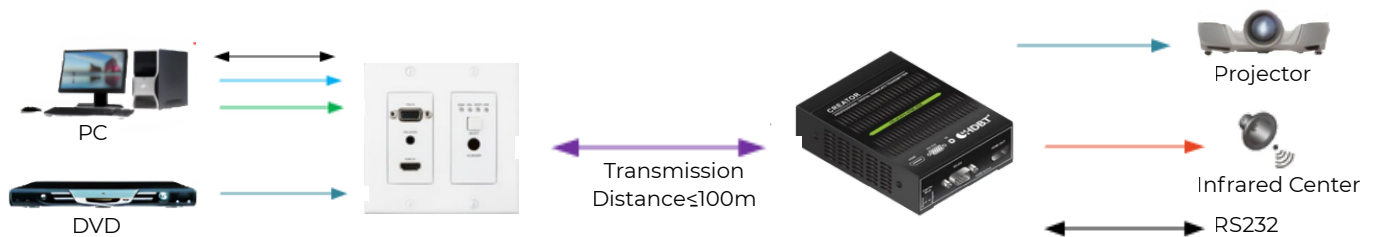


Firmware update

Key Features

- Two inputs switching between HDMI and VGA to an HDBT output
- HDMI and VGA inputs AV switching transmitter
- Supports automatic switching
- HDMI input up to 4K@60Hz (YUV 4:2:0) and HDCP 2.2, VGA input up to 1920×1200@60Hz
- Transmits 4K@60Hz (YUV 4:2:0) and 1080P@60Hz signal up to 100m/330ft via Cat 6a/7 cable
- Transmits 4K@60Hz (YUV 4:2:0) signal up to 70m/230ft and 1080P@60Hz signal up to 100m/330ft via Cat 5e/6 cable
- Supports RS232 and IR pass-through over HDBaseT
- Supports one-way PoC function, the transmitter can be powered by the receiver with same PoC module
- Can be powered by local DC 12V power supply and share power with near device via the 2-pin phoenix power out connector
- Independent DIP switch provided for VGA EDID management
- HDMI input EDID is copied from HDBaseT receiver
- Supports firmware update

Connection Diagram



Product specification

Input Video Signal

VGA, HDMI (4K@60Hz YUV 4:2:0, HDCP 2.2)

Interface

- 1 × VGA IN
- 1 × VGA AUDIO
- 1 × HDMI IN
- 1 × UPDATE
- 1 × HDBT OUT
- 1 × POWER IN (2 Pins, 3.5mm Phoenix Connector)
- 1 × POWER OFF (2 Pins, 3.5mm Phoenix Connector)
- 1 × RS232 (3 Pins, 3.5mm Phoenix Connector)
- 1 × IR OUT (2 Pins, 3.5mm Phoenix Connector)

Input Resolutions

VGA:

Up to 1920×1200@60Hz

HDMI

VESA:

800×600¹, 1024×768¹, 1280×768¹, 1280×800¹, 1280×960¹, 1280×1024¹, 1360×768¹, 1366×768¹, 1440×900¹, 1600×900¹, 1600×1200¹, 1680×1050¹, 1920×1200¹, 2560×1440², 2560×1600²

SMPTE:

1280×720P³, 1920×1080i⁶, 1920×1080P⁸, 3840×2160^{2,3,5,8}, 4096×2160^{2,3,5,8}

Refresh Rate Notes:

- 1 = at 23.98 Hz
- 2 = at 24 Hz
- 3 = at 25 Hz
- 4 = at 29.97 Hz
- 5 = at 30 Hz
- 6 = at 50 Hz
- 7 = at 59.94 Hz
- 8 = 60 Hz

Audio Format

HDMI: Supports multi-channel audio formats, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X

VGA Audio: Stereo

Maximum Data Rate

10.2 Gbps

Control Method

Automatic switching, front panel button

Operating / Storage Temperature

0°C to 45°C (32°F to 113°F)

-20°C to 70°C (-4°F to 158°F)

Humidity

10% to 90%, non-condensing

ESD Protection

±8kV (Air-gap discharge)

±4kV (Contact discharge)

Power Consumption (Max)

3.9W, transmitter powers receiver

Power Supply

PoC, powered by receiver, or local power supply through the 12V phoenix connector

Device Dimension (W × H × D)

89mm × 38.4mm × 105.6mm

3.5" × 1.51" × 4.16"

Product Weight

0.3kg / 0.66lb

Transmission Distance & Supported Video

CAT5e / CAT6 cable supports transmission up to 100 meters for 1080P at 60Hz with 36 bpp color depth. Using the same CAT5e / CAT6 cable, a distance of up to 70 meters is supported for 4K at 30Hz with 4:4:4 chroma sampling and 24 bpp. With CAT6a / CAT7 cable, the system supports transmission up to 70 meters for 4K at 60Hz using 4:2:0 chroma sampling at 24 bpp.