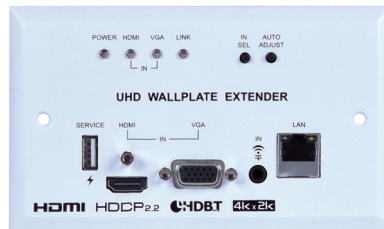# CH-2538TXWPKD

4K60 (4:4:4) 2×1 HDMI/VGA Wallplate Switcher over HDBaseT with PoH (PD) & LAN

INTRODUCTION

This Wallplate Swticher is an HDMI/VGA switch with audio embedding and HDBaseT output. The wall plate is designed for use with UK two-gang sized enclosures. This Switcher can send uncompressed high-definition video/audio along with Ethernet over a single cable up to a distance of 100 meters at 1080p@60Hz.

The HDMI input supports resolutions up to 4K@60Hz (4:4:4, 8-bit). The VGA input supports resolutions up to WUXGA (RB) and with the use of the associated 3.5mm audio input, stereo audio may be embedded as well. To provide maximum compatibility with a wide range of display types, all sources will be automatically scaled to match the preferred resolution and timing of the connected display (as reported by the display's EDID). Despite HDBaseT's 10.2Gbps bandwidth limitation, even 4K UHD HDMI video sources, up to and including 4K@60Hz (4:4:4, 8-bit), can be supported by converting the signal to 4K@30Hz when necessary.

This unit also supports automatic input selection between the HDMI and VGA inputs, with hot plug detection, enabling hands-free operation. Additionally, the unit may be powered locally or via 48V PoH (Power over HDBaseT) from a compatible HDBaseT Receiver, which allows for greater flexibility in installations.

FEATURES

- HDMI 2.0 and DVI 1.0 compatible
- HDCP 2.2 and HDCP 1.x compliant
- 1 HDMI input
- 1 VGA input with 3.5mm mini-jack audio input
- Supports HDMI input resolutions up to 4K@60Hz (4:4:4, 8-bit)
- Supports VGA input resolutions up to WUXGA (RB)
- Automatic conversion of 4K@50/60Hz HDMI sources to 4K@30Hz (4:4:4, 8-bit) for transmission over HDBaseT
- Automatic scaling of sources to match the native resolution of the HDMI display based on EDID
- HDBaseT feature support: HD Video and Audio, 48V PoH, and Control (Ethernet bypass)
- Simultaneous transmission of uncompressed video, audio and data over a single 100m/328ft Cat.5e/6/7 cable at 1080p and 70m/230ft at 4K
- Automatic input selection with hot plug detection enabling hands-free operation
- Unit may be powered locally or via 48V PoH (PD) from a compatible HDBaseT Receiver (PSE)
- Wall plate is designed for UK two-gang sized enclosures
- Controllable via front panel buttons and RS-232 (remote or local)
- Front panel LEDs indicate input selection, power and link status

HDBaseT 1.0 Wallplate Switchers

SPECIFICATIONS	CH-2537TXWPUS	CH-2537TXWPUD	CH-2537TXWPEU	CH-2538TXWPKD
Input Ports	1×HDMI 1×VGA (HD-15) 1×Stereo (3.5mm)	2×HDMI 1×VGA (HD-15) 1×Stereo (3.5mm)	2×HDMI 1×VGA (HD-15) 1×Stereo (3.5mm)	1×HDMI 1×VGA (HD-15) 1×Stereo (3.5mm)
Output Port	1×HDBaseT (RJ45)	1×HDBaseT (RJ45)	1×HDBaseT (RJ45)	1×HDBaseT (RJ45)
Pass-through Port	1×LAN (RJ45)	1×LAN (RJ45)	1×LAN (RJ45)	1×LAN (RJ45)
Power Supply	12V/3A	12V/3A	12V/3A	12V/3A
Dimensions	46mm×104mm×67mm (W×H×D) [Case Only] 46mm×104mm×71.5mm (W×H×D) [All Inclusive]	91.8mm×104mm×50mm (W×H×D) [Case Only] 91.8mm×104mm×54mm (W×H×D) [All Inclusive]	147mm×87mm×42mm (W×H×D) [Case Only] 147mm×87mm×48mm (W×H×D) [All Inclusive]	147mm×87.5mm×41.5mm (W×H×D) [Case Only] 147mm×87.5mm×46.6mm (W×H×D) [All Inclusive]
Weight	200g	245g	250g	250g

Product Selection Guide

HDBaseT FEATURES	CH-2537TXWPUS	CH-2537TXWPUD	CH-2537TXWPEU	CH-2538TXWPKD	CH-2538TXPLWPKD
HD Video & Audio	✓	✓	✓	✓	✓
IR/RS-232 pass-through	–	–	–	–	–
LAN pass-through	–	✓	✓	✓	–
Send power to Receiver	–	–	–	–	–
Accept power from Receiver	✓	✓	✓	✓	✓
Send power to Transmitter	–	–	–	–	–
Accept power from Transmitter	–	–	–	–	–
Cat.5e/6 Cable Length	100m@1080p 70m@4K	100m@1080p 70m@4K	100m@1080p 70m@4K	100m@1080p 70m@4K	70m@1080p 35m@4K

HDMI & VGA A/V, ETHERNET & POWER

OVER A SINGLE CAT. CABLE