tvONE®

We Engineer Confidence®

Instruction Manual

MG-WP-611 Series

Switchable VGA and HDMI HDBaseT Wallplates

Table of Contents

1.0	Safety precautions	1
2.0	Introduction	1
3.0	Features	2
4.0	Operation Controls and Functions	3
	Front Panel	3
	Rear Panel	4
	Button Control	4
	RS-232	4
	Mode 1	5
	Mode 2	5
	RS-232 Commands	6
	RS-232 Communication protocol	6
	Control Mode Switching	6
	Input Signal Switching	6
	VGA Scaling Configuration	6
	HDCP Compliance	7
	VGA Image Adjusting	7
	EDID Configuration	8
	Device Configuration	8
5.0	Specifications	9
	Technical Specifications	9
6.0	Ordering information	10
7.0	Limited Warranty	11
8.0	Regulatory Compliance	12
9.0	Liability statement	12
10.0	Contact Information	13
	tvONE NCSA	13
	tvONE EMEA	13

1.0 SAFETY PRECAUTIONS

Read all instructions before attempting to unpack, install or operate this equipment, and before connecting the power supply.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

2.0 INTRODUCTION

The HD-One wall plate Transmitter series enables switching and extension for HDMI (up to 4K) and VGA (up to 1080p) signals, while providing HD extension up to 70 meters (230ft) and 4K extension up to 40m (130ft). Available in regionally specific form factors, the MG-WP-611-US and MG-WP-611-EU, are easily powered

by a local power supply or the MG-CT-612 Receiver with integrated Power over HDBaseT (POH). You can also connect to any Magenta HD-One RX or tvONE CORIO products providing extra flexibility and reliability.

3.0 FEATURES

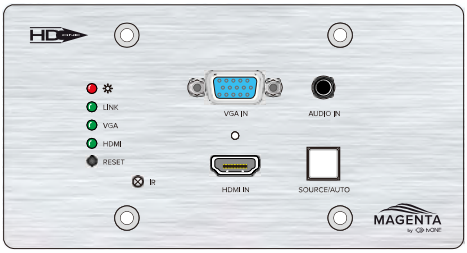
- HDMI, VGA and Audio inputs with RS-232 control
- Inputs can be switched automatically, manually or by RS-232 control
- High quality matte anodized aluminum finish
- Delivers full uncompressed HD video 3D and 4Kx2K, RS-232 and IR
- Supports VESA resolutions up to 1920x1200@60Hz and HDTV resolutions up to 1080p
- HD extension up to 70 meters (230ft) and 4K extension up to 40m (130ft)
- Automatically match signals to display native resolution with built-in scaling
- PoH (power over HDBaseT) allows powering from the receiver (MG-CT-612)

4.0 OPERATION CONTROLS AND FUNCTIONS

FRONT PANEL

MG-WP-611-US

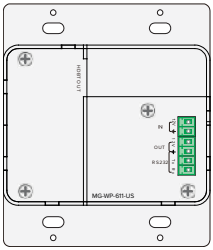
MG-WP-611-EU



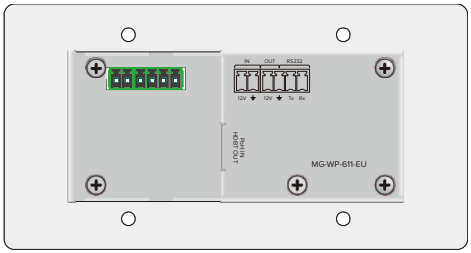
Name	Description
POWER or (☼)	LED indicator glows red when power is applied.
LINK	LED indicator glows green when an HDBaseT link is established.
HDCP	LED indicator glows green when an HDCP link is established.
RESET	This button performs a soft reboot of the Wallplate Transmitter.
IR	Built-in IR sensor to receive IR signal from IR remote. (EU only)
SOURCE/AUTO	Button switches sources, Press and hold for 3 seconds to change mode between Auto and Manual source select. LED indicator glows green when in Auto mode.
VGA & VGA IN	VGA – LED indicator glows green when the VGA input is active, amber when a source is available, and does not light when there is no source connected.
AUDIO IN	3.5mm stereo audio connector supplies audio for the VGA input.
HDMI & HDMI IN	HDMI - LED indicator glows green when HDMI input is active, amber when a source is available, and does not light when there is no source connected.
FIRMWARE	Micro-USB connector used to update firmware. (side panel for EU)

REAR PANEL

MG-WP-611-US



MG-WP-611-EU



Name	Description
HDBT OUT	HDBaseT output, connects with HDBaseT Receiver over a single Category cable to deliver AV signals, support PoH.
IN	12V input, connects with power adapter.
OUT (future)	This is a 12V output to be used with future products
RS-232	Serial port to control This device or third-party devices via RS-232 commands.

Button Control

SOURCE/AUTO

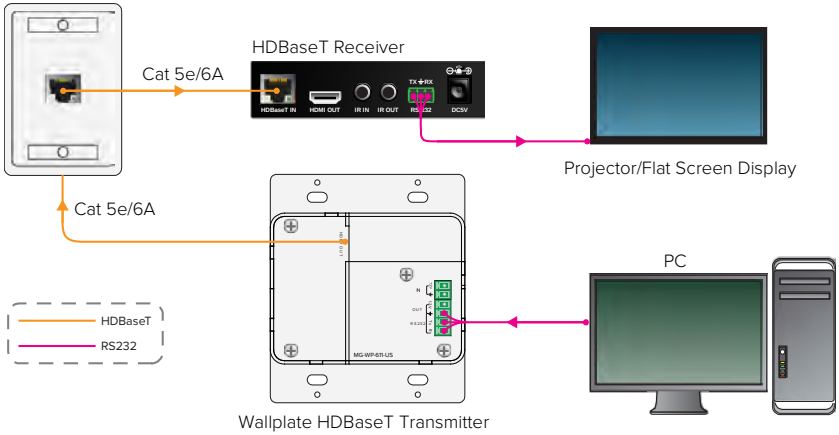
Press and hold the SOURCE/AUTO button for approximately 3 seconds. When the button lights up green the Device is in AUTO mode. This mode automatically selects the last video source connected to the wall plate and outputs it to the display. Press and hold again for approximately 3 seconds, the light will go out, and the device will be in Manual mode which will allow the user to momentarily press the button to toggle between the two sources.

RS-232 Control

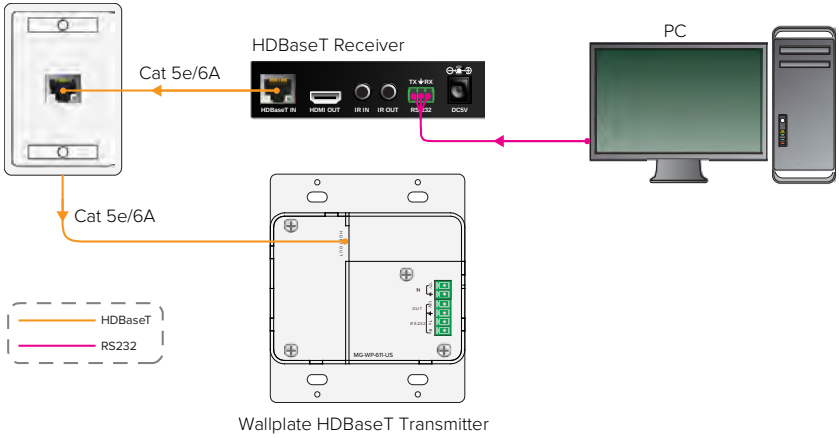
This Wall plate can be controlled locally or through a receiver via serial commands and/or control 3rd party devices connected to it. Depending on how the device is being control you must set the RS-232 control mode (1 or

2) with commands 50779% or 50780% (see RS-232 commands for full list). An example of these 2 setups can be seen below.

Mode 1



Mode 2



RS-232 Commands

RS-232 Communication protocol

Baud rate: 9600 Data bit: 8 Stop bit: 1 Parity bit: none

Note: Feedback will not be sent unless using the MG-CT-612

Control Mode Switching

Command	Function	Feedback Example
50779%	Switch to RS-232 mode 1（Default, control scaler switcher and the far-end third-party device.	RS-232 Mode 1: RS-232 Control Scaler & Remote.
50780%	Switch to RS-232 mode 2, control the scaler switcher from remote.	RS-232 Mode 2:RS-232 & Remote Control Scaler

Input Signal Switching

Command	Function	Feedback Example
50770%	Enable auto-switching	Auto Switching
50771%	Disable auto-switching	Manual Switching
50701%	Switch to HDMI input	Switch to HDMI
50704%	Switch to VGA input	Switch to VGA

VGA Scaling Configuration

The default output resolution for VGA is 1920x1080. Below is a list of the output resolutions the built-in scaler can output.

Command	Function	Feedback Example
50632%	Check the output resolution	Resolution: xx
50619%	Change the resolution to 1360X768 HD	Resolution: 1360x768
50626%	Change the resolution to 1024X768 XGA	Resolution: 1024x768
50627%	Change the resolution to 1280X720 720P	Resolution: 1280x720
50628%	Change the resolution to 1280X800 WXGA	Resolution: 1280x800
50629%	Change the resolution to 1920X1080 1080P	Resolution: 1920x1080
50620%	Change the resolution to 1920X1200 WUXGA	Resolution: 1920x1200
50621%	Change the resolution to 1600X1200 UXGA	Resolution: 1600x1200

HDCP Compliance

Command	Function	Feedback Example
50790%	Set the HDCP status of HDMI output socket to Active	HDCP Active
50791%	Set the HDCP status of HDMI output socket to On	HDCP On
50792%	Set the HDCP status of HDMI output socket to Off	HDCP Off
50793%	Check HDCP status	HDCP Off/ HDCP On/HDCP Active (default)

VGA Image Adjusting

Command	Function	Feedback Example
50636%	Check the brightness	Brightness: xx (xx=00～99)
502xx%	Set the brightness to xx.	Brightness: xx (xx=00～99)
50637%	Check the contrast	Contrast: xx (xx=00～99)
503xx%	Set the contrast to xx.	Contrast: xx (xx=00～99)
50638%	Check the saturation	Saturation: xx (xx=00～99)
504xx%	Set the saturation to xx.	Saturation: xx (xx=00～99)
50639%	Check sharpness	Sharpness: xx (xx=00～99)
505xx%	Set the sharpness to xx.	Sharpness: xx (xx=00～99)
50606%	Auto-adjust the input parameter	VGA Input Auto
50640%	Check the color temperature	Color Temperature: xx (xx can be medium, warm, user, or cool.)
50607%	Adjust the color temperature	Color Temperature: xx (xx can be medium, warm, user, or cool.)
50635%	Check the image aspect ratio	Aspect Ratio: xx (xx can be 16:9, 4:3, or auto.)
50608%	Set the aspect ratio	Aspect Ratio: xx (xx can be 16:9, 4:3, or auto.)
50633%	Check the picture mode	Picture Mode: xx (xx can be dynamic, standard, mild, or user.)
50614%	Set the picture mode	Picture Mode: xx (xx can be dynamic, standard, mild, or user.)
50707%	Check the present resolution and polarity	1920x1080, Hpolarity:1, Vpolarity:0
50705%	Change the horizontal polarity to the opposite	Hpolarity:0/1
50706%	Change the vertical polarity to the opposite	Vpolarity:0/1

50678%	Enable screen output adjusting	Enter Output Position Adjust
50679%	Disable screen output adjusting	Exit Output Position Adjust
50670%	Move the image to left	Output Position Adjust X xx
50671%	Move the image to right	Output Position Adjust X xx
50672%	Move the image up	Output Position Adjust Y xx
50673%	Move the image down	Output Position Adjust Y xx
50674%	Pull left from right side (decrease image width)	Output Width Adjust xx
50675%	Stretch right from right side (increase image width)	Output Width Adjust xx
50676%	Stretch upwards from bottom side (decrease image height)	Output Height Adjust xx
50677%	Stretch downwards from bottom side (increase image height)	Output Height Adjust xx

EDID Configuration

Command	Function	Feedback Example
50772%	EDID pass-through (default)	EDID: bypass mode
50773%	Set EDID data to 1080P PCM 2.0ch	EDID:1080P&PCM 2ch
50774%	Set EDID data to 1080P Dolby 5.1	EDID:1080P&5.1ch
50775%	Set EDID data to 1080P3D Dolby 5.1	EDID:1080P3d&5.1ch
50776%	Set EDID data to 1080i PCM 2.0ch	EDID:1080i&PCM 2ch
50777%	Set EDID data to 4Kx2K PCM 2.0ch	EDID:4K&PCM 2ch
50778%	Check EDID data	EDID: bypass mode EDID:1080P&PCM2ch EDID:1080P&5.1ch EDID:1080P3d&5.1ch EDID:4K&PCM 2ch
50799%	Program EDID file, send EDID data within 10s	Waiting for EDID within 10 secs!

Note: EDID commands are for HDMI sources only.

Device Configuration

Command	Function	Feedback Example
50698%	Software upgrading	
50699%	Check the software version	Version Vx.x.x
50617%	Restore factory default	

5.0 SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Input	1x HDMI 1x VGA 1x 3.5mm Analog audio 1x HDBT via RJ45 (rear) 1x RS-232 via 3-pin terminal block (rear) 1x IR Sensor (EU only) 1x micro USB (FW only)
Control	via Front button and RS-232 control
Video support	VGA up to 1920x1080@60Hz HDMI 1.4 up to 4Kx2k@60
Audio impedance	>10Ω
HDCP compliance	HDCP 1.4
Extension	1080p up to 230 ft (70m), 4K up to 130ft (40m)
Bandwidth	10.2Gbps
Power	Via 12V 2A DC power supply or POH from Receiver[1]
Consumption	9.6w (max)
Operating temp	-10° to 40°C (14° to 104°F)
Humidity	10% to 90%
Dimensions (H x W x D)	3.5"x 4.1" x 1.7" (89 x 105 x 44mm) – US 3.1" x 0.9" x 1.7" (80 x 151 x 44mm) – EU
Weight (Net)	0.52 lbs (238g) - US 0.57 lbs (258g) - EU
Warranty	3 Years
MTBF	TBD
Regulatory compliance	FCC, CE

[1] Use the MG-CT-612 for POH

Specifications subject to change without notice

6.0 ORDERING INFORMATION

MG-WP-611-US	HDBT wall plate TX with VGA and HDMI 1.4 input, extend 4K to 130', HD to 230', US form factor
MG-WP-611-EU	HDBT wall plate TX with VGA and HDMI 1.4 input, extend 4K to 40m, HD to 70m, Euro form factor
MG-CT-612	HDBT Receiver with POH for MG-WP-611 wall plates, HDMI 1.4

7.0 LIMITED WARRANTY

tvONE™ warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a fixed term from the date of purchase. The warranty term for specific product lines is defined below.

1. tvONE branded products based on tvONE's CORIO™ technology are warranted for a period of five(5) years from the date of purchase. This includes products with the model number prefix of C2, 1T-C2, C3, CX, CM, CV, A2, or S2.
2. tvONE branded products, other than those based on tvONE's CORIO technology mentioned above, are warranted for a period of two(2) years from the date of purchase. This includes products with the model number prefix of 1T, with the exception of 1T-C2.
3. Magenta™ branded products are warranted for a period of three(3) years from the date of purchase.
4. LCD Monitors are warranted for a period of three(3) years from the date of purchase, with the exception of the LCD panels integrated into the monitors that are supplied by third parties. LCD panels are limited to the term and conditions of the warranty offered by the respective LCD panel manufacturer. Such specific LCD panel warranties are available upon request to tvONE.

Should a product, in tvONE's opinion, prove defective within this warranty period, tvONE, at its discretion, will repair or replace this product without charge. Any defective parts replaced become the property of tvONE. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations,
improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.
If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from tvONE and return the product to a location designated by tvONE, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.
LIMITATIONS - All products sold are "as is". The above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to the stated number of years from the date of purchase. tvONE assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue, or profit.
tvONE makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of tvONE with respect to any defective products will be limited to the repair or replacement of such products. In no event shall tvONE be responsible or liable for any damage arising from the use of such

defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

8.0 REGULATORY COMPLIANCE

This product has been tested for compliance with appropriate FCC and CE rules and regulations. The power adaptor/supply has been tested for compliance with appropriate UL, CUL, CE, PSE, GS Rules, regulations and/or guidelines. This product and power adapter is RoHS compliant.

9.0 LIABILITY STATEMENT

This product is intended for professional use. This product is not intended for use in a medical environment and does not have the required certifications for such use. Similarly, use aboard any aircraft or spacecraft while in flight or as an adjunct to any surface, airborne or marine navigation system or any offshore marine activity, including control of any watercraft, or any use similar to those specifically herein mentioned is prohibited. Use in the aforementioned circumstances would require additional testing and certification.

No warranty is made either expressed or implied including but not limited to any implied warranties of merchantability or fitness for a particular purpose. In no event shall the supplier or manufacturer of this product be liable for errors found within, or be liable for any direct, indirect or consequential damages or loss in connection with the purchase or use of this hardware, software or manual. The sole and exclusive liability to the supplier and manufacturer regardless of the form of action shall not exceed the replacement cost of the materials described herein.

tvONE reserves the right to revise any of its hardware and software products following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

By using this equipment, you have indicated that you have agreed to the terms listed above. If you do not wish to agree or the above terms are contrary to your conditions of purchase you may return the equipment, unused, to your supplier.

All third party trademarks and copyrights are recognized. The tvONE logo, Magenta logo, CORIO word and the CORIO logo are registered trademarks of tvONE. All other trademarks are the property of their respective holders.

E&OE

10.0 CONTACT US

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