

Why Wall Plate Extender?

Although video extenders are popular, it would be even more appealing to A/V installation if the extenders can be fit into the wall, to be part of the housing infrastructure. The Wall Plate Extender Series is exactly designed for the purpose of improving cabling infrastructure, where any kind of application would be better if we can hide the cables in the wall, not exposed within the eyesight.

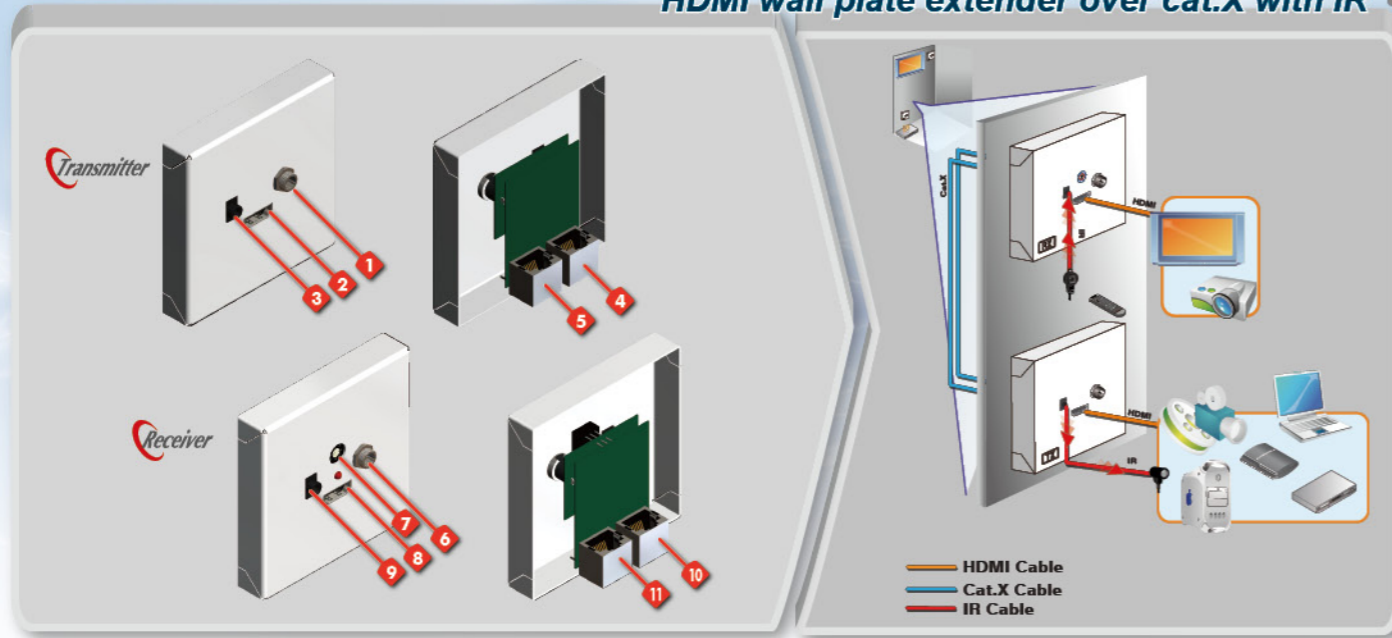
GoMax

wall plate extender series products are all essentially mini CAT5 extenders that can fit in either single gang with most of them are passive thus no external power required. The users can expect comparable performance with regular video extenders while enjoy the neatness of cabling in the wall. Currently the series product provides wall plate extenders for HDMI, DVI, VGA, component and composite formats, and our R&D power is at your disposal for ODM/OEM demand on creating any specific wall plate extender.

Model Name	Description	Page
WP-57C [US/EU]	HDMI wall plate extender over cat.X with IR	F-02
WP-57KJ	HDMI wall plate extender over single cat.X with bi-directional IR	F-03

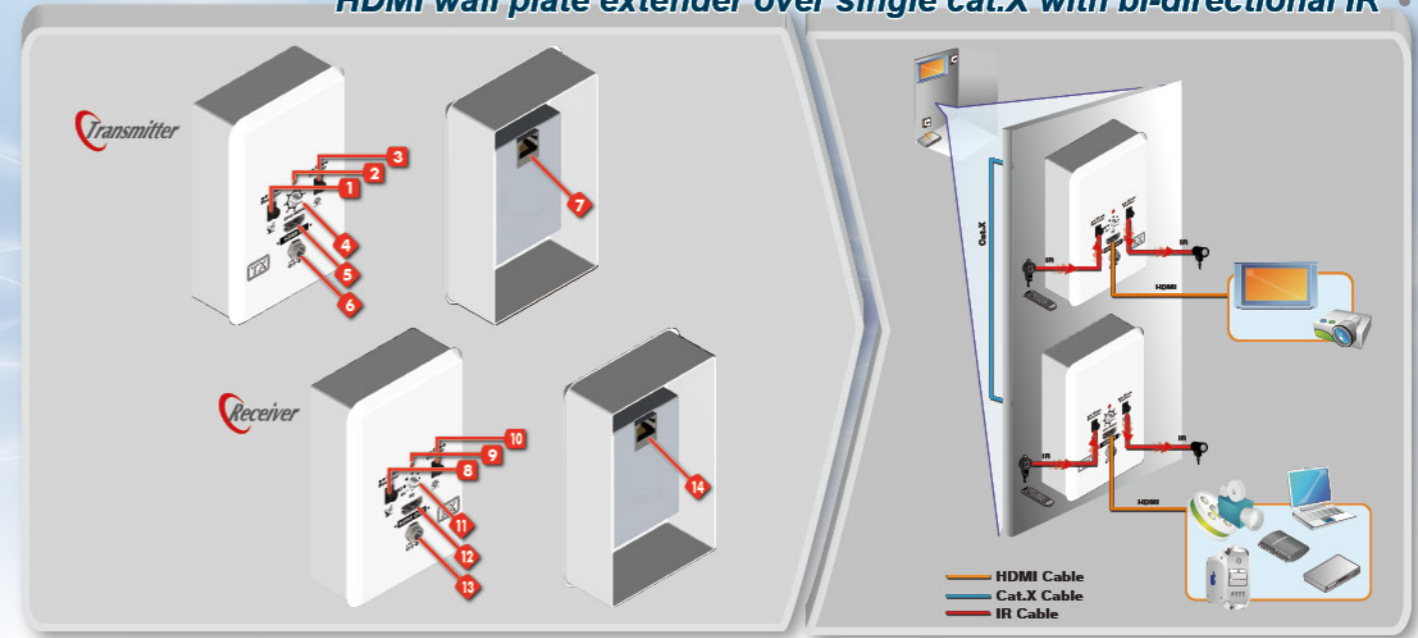
WP-57C [US/EU]

HDMI wall plate extender over cat.X with IR



WP-57KJ

HDMI wall plate extender over single cat.X with bi-directional IR



Indication

WP-57C[TX]	WP-57C[RX]
1 +5V 2A DC	6 +5V 2A DC
2 HDMI IN	7 signal adjustment
3 IR Emitter	8 HDMI OUT
4 A/V Signal out	9 IR Receiver
5 Control channel out	10 A/V Signal in
	11 Control channel in

Features

- Support HDMI Deep Color & full 3D
- Extends the transmission distance up to 60m [200ft] from the sources under 1080i or 720p
- Extends the transmission distance up to 40m [130ft] from the sources under 1080p
- Provides independent DDC channel, fully HDCP compliant
- Minimizes the cable skew by adjustable 8-level equalization rotary control switch
- Embedded IR control path from RX side to TX side for source control
- Pure unaltered uncompressed 7.1ch digital HDMI over UTP cable transmission
- Perfectly integrated with other HDMI over CAT5 series products

Package Contents

- 1x WP-57C[TX]
- 1x WP-57C[RX]
- 1x IR receiver
- 1x DC 5V 2A wall wart
- 1x User Manual

Specifications

Model Name	WP-57C	
	WP-57C[TX]	WP-57C[RX]
Technical	Transmitter [TX]	Receiver [RX]
Role of usage	Transmitter [TX]	Receiver [RX]
HDMI compliance	HDMI Deep Color & full 3D	
HDCP compliance	Yes	
Video bandwidth	Single-link 225MHz [6.75Gbps]	
Video support	480i / 480p / 720p / 1080i / 1080p60	
Transmission length over LAN cable	Full HD [1080p] – 40m [130ft] over CAT5e / 50m [165ft] over CAT6 HD [720p/1080i] – 50m [165ft] over CAT5e / 60m [200ft] over CAT6	
Audio support	Surround sound (up to 7.1ch) or stereo digital audio	
Equalization	8-level digital control at RX	
ESD protection	[1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV	
PCB stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]	
Input TMDS signal	1.2 Volts [peak-to-peak]	
Input DDC signal	5 Volts [peak-to-peak, TTL]	
Input	1x HDMI	2x RJ45 + 1x 3.5mm
Output	2x RJ45 + 1x 3.5mm	1x HDMI
CEC Bypass	Switchable	
HDMI source control	Controllable through IR control path from IR receiver at receiver site	
IR remote control	Electro-optical characteristics: π = 25° Carrier frequency: 36-40kHz	
HDMI connector	Type A [19-pin female]	
RJ-45 connector	WE/SS 8P8C with 2 LED indicators	
3.5mm connector	IR blaster	IR receiver
Rotary control switch	None	8-level signal equalization
Mechanical		
Housing	Metal enclosure	
Dimensions [L x W x H]	Model Package	Standard US/EU single gang size
	Carton	263 x 170 x 97mm [10.4" x 6.7" x 3.8"]
		512 x 364 x 288mm [1'8" x 1'2" x 11.3"]
Weight	Model Package	210g [7.4oz]
		360g [1.4 lbs]
Fixedness	Fixed with wall plate cover	
Power supply	5V 2A DC	
Power consumption	1 Watt [max]	
Operation temperature	0~40°C [32~104°F]	
Storage temperature	-20~60°C [-4~140°F]	
Relative humidity	20~90% RH [no condensation]	

Indication

WP-57KJ[TX]	WP-57KJ[RX]
1 IR receiver	8 IR receiver
2 Power indicator LED	9 Power indicator LED
3 IR blaster	10 IR blaster
4 Mode	11 8-level signal equalization
5 HDMI input	12 HDMI output
6 +5V DC	13 +5V DC
7 HDMI signal output	14 HDMI signal input

Features

- Support HDMI Deep Color & Full 3D
- Extends the transmission up to 60m (200ft) from the HDMI source at HD 1080i or 720p 24-bit
- Extends the transmission up to 40m (130ft) from the HDMI source at Full HD 1080p 24-bit
- Extends the transmission up to 20m (65ft) from the HDMI source at Full HD 1080p 36-bit
- HDCP 1.1 compliant
- Minimizes the cable skew by adjustable 8-level equalization control
- Pure unaltered uncompressed 7.1ch digital HDMI over Cat.5/5e/6 cable transmission
- DTS-HD and Dolby TrueHD high bit rate audio support
- Supports full frequency IR signal from 20KHz to 60KHz
- Bi-directional IR path
- Allows cascading
- Wall mounting housing design for easy and robust installation
- Perfectly integrated with other HDMI over Cat.X series products

Package Contents

- 1x WP-57KJ[TX]
- 1x WP-57KJ[RX]
- 1x IR blaster
- 1x IR receiver
- 2x DC 5V 2A wall wart
- 1x User Manual

Specifications

Model Name	WP-57KJ	
	WP-57KJ[TX]	WP-57KJ[RX]
Technical	Transmitter [TX]	Receiver [RX]
Role of usage	Transmitter [TX]	Receiver [RX]
HDMI compliance	HDMI Deep Color & Full 3D	
HDCP compliance	Yes	
Video bandwidth	Single-link 225MHz [6.75Gbps]	
Video support	480i / 480p / 720p / 1080i / 1080p60	
HDMI over UTP transmission [24-bit]	Full HD (1080p)-40m (130ft) [CAT5e] / 50m (165ft) [CAT6] HD (720p/1080i)-50m (165ft) [CAT5e] / 60m (200ft) [CAT6]	
Audio support	Surround sound (up to 7.1ch) or stereo digital audio	
Signal Equalization	8-level digital control at RX	
Input TMDS signal	1.2 Volts [peak-to-peak]	
Input DDC signal	5 Volts [peak-to-peak, TTL]	
ESD protection	[1] Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge] [2] Core chipset — ±8kV	
PCB stack-up	4-layer board [impedance control — differential 100Ω; single 50Ω]	
IR pass-thru	Full-duplex bi-directional	
Input	1x HDMI + 1x 3.5mm	1x RJ45 + 1x 3.5mm
Output	1x RJ45 + 1x 3.5mm	1x HDMI + 1x 3.5mm
HDMI source control	Controllable via IR pass-through from RX to TX and from TX to RX with IR extenders	
IR remote control	Electro-optical characteristics: π = 25° / Carrier frequency: 20-60kHz	
HDMI connector	Type A [19-pin female]	
RJ45 connector	WE/SS 8P8C with 2 LED indicators	
3.5mm connector	IR blaster	
Rotary control switch	EDID mode selection	
Mechanical		
Housing	Metal enclosure	
Dimensions [L x W x H]	Model Package	121 x 76 x 34mm [4.8" x 3.0" x 1.3"]
	Carton	270 x 175 x 80mm [10.6" x 6.9" x 3.1"]
		450 x 370 x 300mm [1'6" x 1'3" x 11.8"]
Weight	Model Package	200g [7.1oz]
		1000g [2.2 lbs]
Fixedness	Wall-mounting case with screws	
Power supply	5V 2A DC	
Power consumption	3 Watts	
Operation temperature	0~40°C [32~104°F]	
Storage temperature	-20~60°C [-4~140°F]	
Relative humidity	20~90% RH [no condensation]	

NOTE

Lined area for writing notes.

