

4K60 HDMI & USB-C 2-Gang Wall Plate Extender Kit with USB 2.0 and 60W Charging, 100m

One USB-C Cable at the Table: Laptop Video, USB Camera and Mic, and 60W Charging to a Display Up to 100m over CAT6/6A - HDR, IR, RS-232, CEC and PoC



Puts one USB-C cable at the table that carries a laptop's 4K60 picture, USB 2.0 to the room's camera and audio devices, and up to 60W of charging, over a single CAT6/6A run of up to 100m to the display. The US 2-gang wall-plate transmitter takes a USB-C input and an HDMI input with automatic, manual and priority switching, and the HDBaseT 2.0 receiver at the display adds four USB 2.0 device ports, HDMI out and a balanced or unbalanced stereo audio output. It is built for bring-your-own-device and bring-your-own-meeting rooms where the camera, speakerphone and display sit away from the table.

Both inputs carry up to 4K60 4:4:4 with HDCP 2.3 and HDR10, HDR10+, Dolby Vision and HLG pass-through; the USB-C input runs DisplayPort 1.2a Alt Mode and charges the laptop at up to 60W when the wall plate has its own 24V supply. USB 2.0 travels at up to 255Mbps, enough for conference cameras, speakerphones, keyboards, mice and touch displays, and a USB host port at the plate gives an HDMI-connected computer the same devices. Bidirectional IR and RS-232, CEC pass-through and a DISPLAY ON/OFF button at the plate let the room be run from the table or a control system, and bidirectional PoC lets the one included 24V supply power both units.

Surge Protection Recommended — This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, or lightning strikes. Use of surge protection systems is highly recommended.

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1. Features

- ✓ 2x1 HDMI and USB-C US 2-gang wall plate with HDBaseT 2.0, 4K60 to 100m (328 ft)
- ✓ 4K60 4:4:4 and USB 2.0 over a single CAT6/6A cable
- ✓ USB-C with DisplayPort 1.2a Alt Mode up to 4K60 4:4:4 (HDCP 2.3), USB 2.0 and up to 60W charging
- ✓ HDMI 2.0b input up to 4K60 4:4:4 (HDCP 2.3)
- ✓ Fast switching with automatic, manual and priority modes; auto switching detects signal and source 5V
- ✓ HDR, HDR10, HDR10+, Dolby Vision and HLG pass-through
- ✓ USB 2.0 high speed over HDBaseT 2.0 up to 255Mbps, to four device ports on the receiver
- ✓ USB HOST port at the wall plate, bound to the HDMI input
- ✓ Balanced and unbalanced audio de-embedding on the receiver
- ✓ EDID management and CEC pass-through
- ✓ IR pass-through and learning; RS-232 pass-through and API control
- ✓ Display on/off control via CEC, RS-232 or IR, from a button at the plate
- ✓ Bidirectional 24V PoC: when either end is powered, the other needs no supply (USB-C charging needs the supply at the wall plate)

2. Package Contents

- ✓ In the box: 1x wall plate transmitter; 1x receiver; 1x 24V/5A desktop power supply; 1x IR blaster cable (1.5m); 1x IR receiver cable (1.5m); 1x 5V IR blaster cable (2-pin Phoenix); 2x 3-pin and 1x 5-pin 3.5mm Phoenix connectors; 2x mounting ears; 8x machine screws

3. Specifications

VIDEO	
HDMI Compliance	HDMI 2.0b
DP Compliance	DisplayPort 1.2a (USB-C Alt Mode)
HDCP Compliance	HDCP 2.3
Video Bandwidth	18Gbps
HDBaseT Bandwidth	HDBaseT 2.0 @ 7.2Gbps
Video Resolution	640x480p60 to 4096x2160p60, including 3840x2160p23.98/24/25/29.97/30/50/59.94/60
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8/10/12-bit
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
AUDIO	
HDMI/USB-C Pass-Through	LPCM 2/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Analog Out (RX)	PCM 2CH; balanced up to 8.2dBu (2Vrms), unbalanced up to 2.2dBu (1Vrms)
Frequency Response	20Hz to 20kHz (+/-0.5dB)
S/N Ratio / Dynamic Range	>90dB @ 0dBu, 1kHz, A-weighted
THD+N	<0.01% at +4dBu, 1kHz

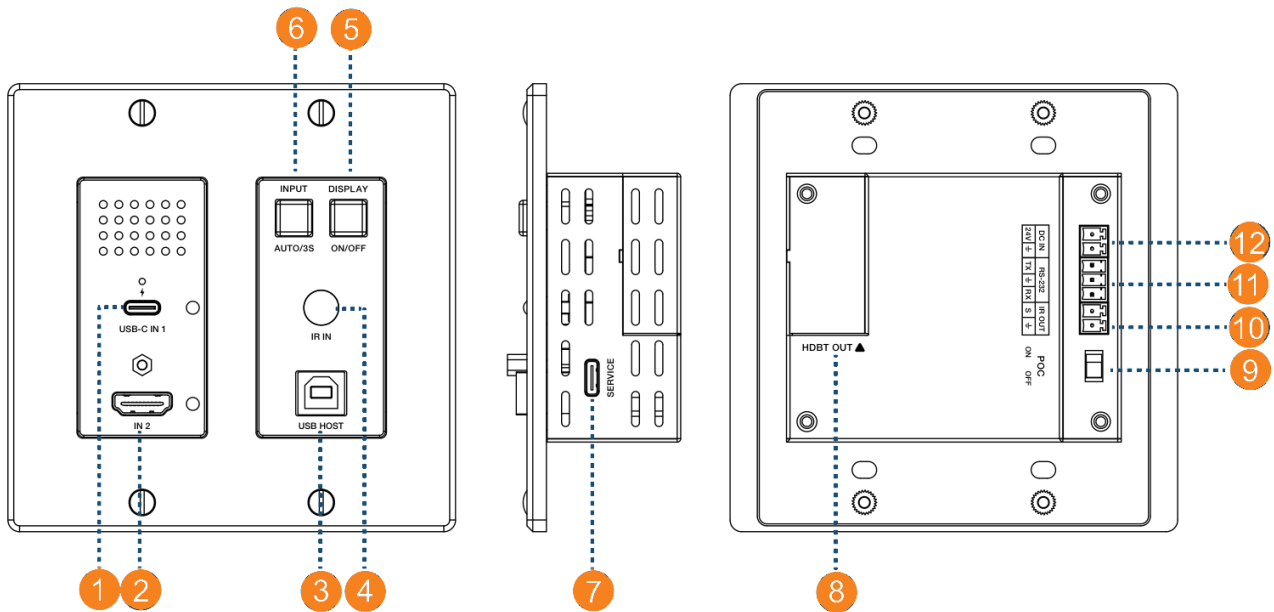


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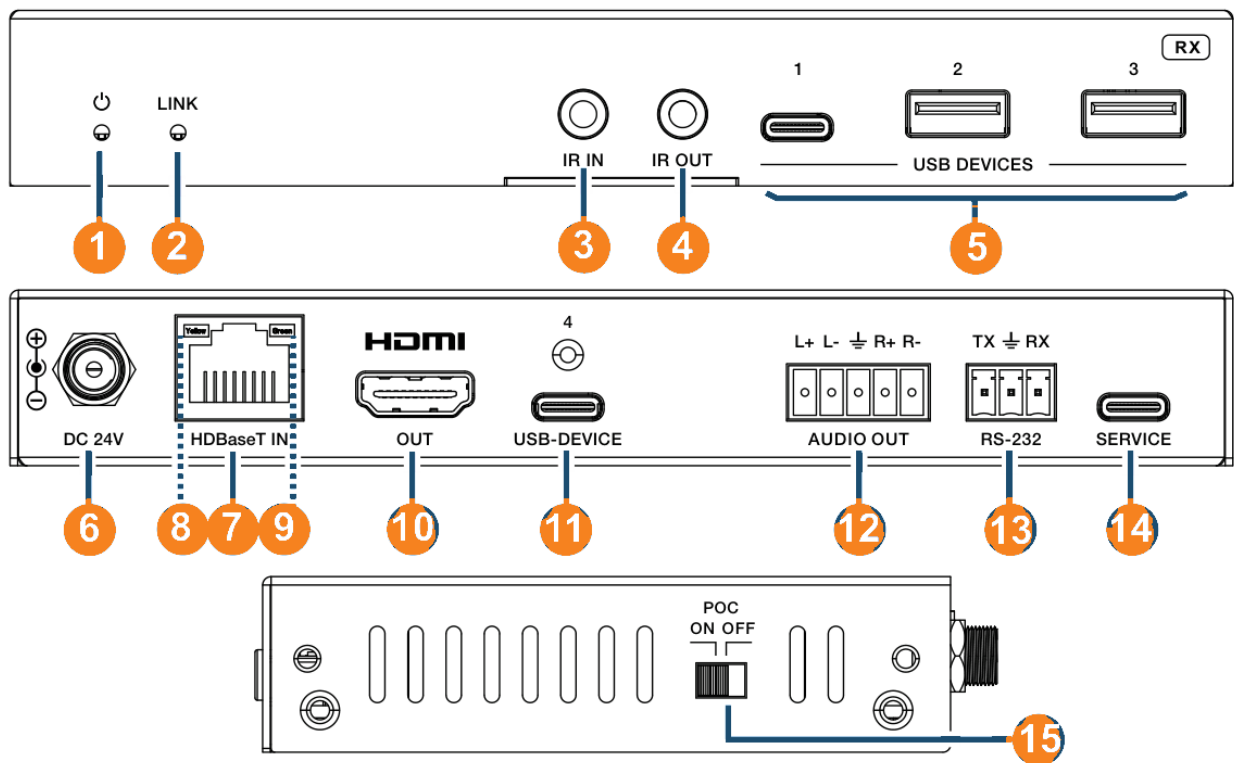
USB AND CHARGING	
USB	USB 2.0 high speed over HDBaseT 2.0, up to 255Mbps
USB-C Charging	Up to 60W, when the wall plate is powered by the 24V supply
TRANSMISSION AND CONTROL	
Distance	4K60 up to 100m (328 ft) over CAT6/6A; HDMI/USB-C passive cable 3m (9.8 ft)
IR	Bidirectional pass-through and learning; 12Vp-p; broadband 20-60kHz
RS-232	Bidirectional pass-through and API control
CEC	Pass-through; display on/off via CEC, RS-232 or IR
ESD Protection	IEC 61000-4-2: +/-8kV air-gap, +/-4kV contact
WALL PLATE TRANSMITTER	
Input	1x HDMI IN (Type A); 1x USB-C IN (DP Alt Mode, USB 2.0, 60W PD)
Output	1x HDBT OUT (RJ45, 24V PoC)
Control	1x RS-232 (3-pin Phoenix); 1x SERVICE (USB-C); 1x USB HOST (USB-B, bound to HDMI IN); IR IN window (learning); 1x IR OUT (2-pin Phoenix); INPUT and DISPLAY ON/OFF buttons; PoC ON/OFF switch
Power	DC IN 24V
RECEIVER	
Input	1x HDBaseT IN (RJ45, 24V PoC)
Output	1x HDMI OUT (Type A); 1x AUDIO OUT (5-pin Phoenix, balanced/unbalanced)
USB	4x USB 2.0 device ports: 2x USB-C, 2x USB-A (5V/1A each)
Control	1x RS-232 (3-pin Phoenix); 1x SERVICE (USB-C); 1x IR IN and 1x IR OUT (3.5mm)
Power	DC 24V
POWER	
Power Supply	DC 24V/5A, one included
Power Consumption (max)	111.8W with 60W USB-C charging (supply at the wall plate); 41.74W without charging
MECHANICAL	
Housing	Transmitter: aluminum front panel, iron back cover; Receiver: iron box
Color	Transmitter: white front, silver back; Receiver: black
Dimensions	Transmitter: 4.53" x 1.56" x 4.53" (115 x 39.5 x 115mm); Receiver: 6.30" x 3.54" x 0.91" (160 x 90 x 23mm)
Weight	Transmitter: 1.08 lbs (489g); Receiver: 1.16 lbs (524g)
ENVIRONMENTAL	
Operating Temperature	32F to 104F (0C to 40C)
Storage Temperature	-4F to 140F (-20C to 60C)
Humidity	Operating 20-80% RH; storage 10-90% RH, non-condensing



4. Panel descriptions



Encoder panel



Decoder panel



TRANSMITTER (WALL PLATE) — CALLOUTS

The manual numbers all transmitter controls and connectors in a single table:

No.	Control / Connector	Description
1	USB-C IN port & LED	USB-C input supporting DP-Alt mode, A/V transmission, USB 2.0 data, and up to 60-watt PD charging when the transmitter is powered by the external PD supply. The LED lights green when the USB-C input is selected.
2	HDMI IN port & LED	HDMI signal input; connect your HDMI source here. The LED lights green when the HDMI input is selected.
3	USB HOST port	USB 2.0 host port, bound to video switching — it follows the HDMI IN port.
4	IR IN window	IR receiving window supporting IR learning and pass-through (see "IR Learning Instruction").
5	DISPLAY ON/OFF button	Turns the connected display on or off; has a green button light (see "Display ON/OFF Button Instruction").
6	INPUT button	Short-press to switch the HDMI/USB-C input manually. Press and hold for 3 seconds to enable or disable auto-switching; when auto mode is on, the green button light stays on.
7	SERVICE port	USB 2.0 Type-C port, used for firmware upgrade and API command control.
8	HDBaseT OUT port	HDBT 2.0 port; connect it to the receiver's HDBaseT IN with a CAT6A cable to pass all signals. Green LED on = TX and RX linked (off = not linked). Yellow LED on = video with HDCP; flashing = video without HDCP; off = no video.
9	POC switch	24V PoC on/off switch. ON = PoC enabled (factory default). OFF = PoC disabled (a local DC 24V supply is then required).
10	IR OUT port	5V IR output; connect the 2-pin 3.5mm Phoenix IR Blaster cable. The signal originates from the receiver's IR IN port.
11	RS-232 port	RS-232 serial port for RS-232 pass-through and API command control.
12	DC IN port	DC 24V/5A power supply input.

RECEIVER (BOX) — CALLOUTS

No.	Control / Connector	Description
1	Power LED	Lights red when the unit is powered on.
2	LINK LED	Lights green when there is a valid HDBaseT link between transmitter and receiver.



continued

No.	Control / Connector	Description
3	IR IN port	IR input; connect the IR receiver cable. The signal is sent to the transmitter's IR OUT port.
4	IR OUT port	IR output; connect the IR Blaster cable. The signal comes from the transmitter's IR IN port.
5	USB Device ports	Three USB 2.0 device ports (two USB-A and one USB-C, each 5V@1A) for a mouse, keyboard, flash drive or other USB device.
6	DC 24V port	DC 24V/5A power supply input.
7	HDBaseT IN port	HDBT 2.0 port; connect it to the transmitter's HDBaseT OUT with a CAT6A cable to pass all signals.
8	Data Signal Indicator (yellow)	On = video with HDCP encryption; flashing = video without HDCP; off = no video.
9	Link Signal Indicator (green)	On = transmitter and receiver are linked; off = not linked.
10	HDMI OUT	HDMI signal output; connect your HDMI display.
11	USB-DEVICE port	USB 2.0 Type-C device port (5V@1A) for a mouse, keyboard, flash drive or other USB device.
12	AUDIO OUT port	Analog audio output supporting balanced (max 2Vrms) and unbalanced (max 1Vrms) audio. Balanced wiring: L+, L-, GND, R+, R-. Unbalanced wiring: L+, GND, R+.
13	RS-232 port	RS-232 serial port for RS-232 pass-through and API command control.
14	SERVICE port	USB 2.0 Type-C port, used for firmware upgrade and API command control.
15	POC switch	24V PoC on/off switch. ON = PoC enabled (factory default). OFF = PoC disabled (a local DC 24V supply is then required).

Note on PoC: because the kit supports PoC, when either the transmitter or the receiver is powered by the 24V/5A adapter, the other unit needs no external supply.

5. Network cabling (Caution)

This extender requires a **straight-through (direct)** CAT connection — do **not** cross-connect. Wire both ends of the CAT6/6A cable to the same pin order:

PIN	WIRE COLOR
1	White/Orange
2	Orange
3	White/Green
4	Blue



continued

PIN	WIRE COLOR
5	White/Blue
6	Green
7	White/Brown
8	Brown

6. Signal switching modes

The wall plate transmitter accepts two inputs — HDMI (input 2) and USB-C (input 1) — and supports auto, manual and priority switching. To switch manually, short-press the front-panel **INPUT** button; the LED beside the selected input lights green. To enable auto-switching, press and hold **INPUT** for 3 seconds — the green button light confirms auto mode is on. In auto mode the unit can switch on either source 5V detection or signal detection (selectable by API command).

7. IR learning

Follow these steps to teach the unit a display's IR commands:

1. Connect the transmitter's RS-232 port to a PC, open a serial terminal, and send `set ir learn power on` to start learning. 2. Point the display's remote at the transmitter's **IR IN** window and press the button you want to learn. If the serial port returns `IR power on: learning success`, the command was captured. If it returns `IR power on: learning timeout`, resend `set ir learn power on` and try again. 3. After a successful learn, connect the IR Blaster cable to the **receiver's IR OUT** port and aim it at the device to be controlled. You can then trigger the device by sending `set display x power on/off` over the receiver's RS-232 port, or by pressing the transmitter's **DISPLAY** button.

Notes: Each `set ir learn power on` learns only one command, and re-learning overwrites the previous one. Learning the "power off" command works the same way, using `set ir learn power off`.

8. Display ON/OFF button

The **DISPLAY ON/OFF** button triggers the receiver's RS-232, IR and/or CEC signals to power the connected display on or off. Choose which control types are active with `set display rx control type y`, where `y` is a 3-bit field: bit 0 = CEC, bit 1 = RS-232, bit 2 = IR (1 = enabled, 0 = disabled). For example, `set display rx control type 111` enables all three; `000` disables all three.

- **With IR enabled:** pressing the button with the green light on sends the learned power-on IR signal to the receiver's IR OUT port; with the light off it sends the learned power-off signal. This works only if the display's on/off IR signals were successfully learned.
- **With CEC enabled:** the button sends a CEC signal out the receiver's HDMI OUT port to power the display on (light on) or off (light off).
- **With RS-232 enabled:** the button sends an RS-232 signal out the receiver's RS-232 port to power the display on (light on) or off (light off).

9. Dimensions of the wall plate

Section 8 provides a mechanical drawing of the wall plate, dimensioned in millimetres.

10. IR pin definition

The IR Receiver and IR Blaster pin-outs are given as diagrams. The IR Receiver uses **Power 12V** with + and – connections; the IR Blaster uses + and – connections.

Range note: at a 45° angle between the IR receiver and the remote, range is 0–5 metres; at 90°, range is 0–8 metres.

11. API commands

The product accepts ASCII API commands. Connect either the **RS-232 port** (3-pin Phoenix cable, to a PC or control system) or the **SERVICE port** (USB-C cable, to a PC), open a serial terminal, and send commands.

Serial protocol

- SERVICE port (USB-C virtual RS-232, internal debug / command line): baud **115200 fixed**, 8 data bits, 1 stop bit, no parity.
- Phoenix RS-232 port (to a control system): baud **4800–115200 configurable**, 8 data bits, 1 stop bit, no parity.



SYSTEM SETTINGS

COMMAND	FUNCTION	EXAMPLE → FEEDBACK
<code>? / help</code>	List all API commands	<code>help</code>
<code>status</code>	Get current device status	<code>status</code> (see status block below)
<code>get version</code>	Get firmware version	→ TX FW v1.0.0 / RX FW v1.0.0
<code>reboot</code>	Reboot the device	→ Reboot... System Initializing... Initialization Finished!
<code>reset</code>	Reset all settings to default (type <code>yes</code> to confirm, <code>no</code> to discard)	→ Sure to RESET to default settings?...

TX SETTINGS

COMMAND	FUNCTION	NOTES
<code>set tx input x hdcp declaration y</code>	Set TX input HDCP declaration	x: 0=all, 1=USBC1, 2=HDMI2; y: 0=off, 1=HDCP 1.4, 2=HDCP 2.3
<code>get tx input x hdcp declaration</code>	Get TX input HDCP declaration	x as above
<code>set tx key on/off</code>	Set front-panel key lock	—
<code>get tx key</code>	Get front-panel key status	—
<code>get temp</code>	Get internal temperature	→ e.g. 45C
<code>get uptime</code>	Get running time (D:H:M:S)	→ e.g. 000:00:13:04
<code>set tx source x</code>	Set TX input source	x: 0=off, 1=USBC1, 2=HDMI2, 3=internal pattern (default: source 1 / on)
<code>get tx source</code>	Get TX input source	—
<code>set tx pattern x y</code>	Set TX internal test pattern	x=resolution 1–7 (1=4K60, 2=4K50, 3=4K25, 4=4K24, 5=1080P60, 6=480P60, 7=576P50); y=pattern 01–13 (color bar, checkerboard, strip, red, green, blue, white, ramp, red/green/blue ramp, PRBS, black)
<code>get tx pattern</code>	Get TX pattern output	—
<code>set tx usb x</code>	Set TX USB source	x: 0=follow video, 1=USB-C host, 2=USB-B host
<code>get tx usb</code>	Get TX USB source	—
<code>get tx usbh5v x</code>	Get TX USB host 5V status	x: 0=all, 1=USB-C, 2=USB-B
<code>set tx autoswitch on/off</code>	Set auto-switching on/off	default: on
<code>get tx autoswitch</code>	Get auto-switching status	—
<code>set tx autoswitch mode x</code>	Set auto-switch mode	x: 0=5V detection, 1=signal detection (default: signal detection)
<code>get tx autoswitch mode</code>	Get auto-switch mode	—
<code>set tx edid to y</code>	Set TX input EDID (y=1–20)	01=Copy EDID from RX HDMI output (default); 02–18 fixed EDIDs (see EDID modes); 19–20 = User Defined 1/2
<code>get tx edid/get tx edid data</code>	Get TX EDID / raw EDID data	—



continued

COMMAND	FUNCTION	NOTES
<code>get user edid x</code>	Get user-defined EDID data	x: 0=both, 1=User Defined 1, 2=User Defined 2
<code>set user edid x <y></code>	Set user-defined EDID (256-byte data)	x as above; y = EDID bytes

RX SETTINGS

COMMAND	FUNCTION	NOTES
<code>set rx output display y</code>	Set RX output display mode	y: 0=off (disable TMDS), 1=input video, 2=AVMUTE, 3=internal pattern
<code>get rx output display</code>	Get RX output display mode	—
<code>set rx output hdcp y</code>	Set RX output HDCP mode	y: 0=signal management, 1=auto/follow sink (default), 2=force HDCP 1.4, 3=force HDCP 2.3
<code>get rx output hdcp</code>	Get RX output HDCP mode	—
<code>set rx pattern x y</code>	Set RX internal pattern	x/y same ranges as <code>set tx pattern</code>
<code>get rx pattern</code>	Get RX pattern output	—
<code>set rx audio mute on/off</code>	Set RX de-embed audio mute	default: mute off
<code>get rx audio mute</code>	Get RX audio mute status	—
<code>set rx usbd5v to x</code>	Set RX USB device 5V output	x: 0=disable, 1=follow host (default), 2=force always on
<code>get rx usbd5v</code>	Get RX USB device 5V status	—

DISPLAY CONTROL

COMMAND	FUNCTION	NOTES
<code>set display x auto power function on/off</code>	Auto power display when signal on/off	x: 0=all, 1=TX display, 2=RX display (default: off)
<code>get display x auto power function</code>	Get auto power function status	x as above
<code>set display x auto power on/off time y</code>	Set auto power on/off delay	y = 0–1200 sec
<code>get display x auto power on/off time</code>	Get auto power on/off delay	—
<code>set display x power on/off</code>	Power display on/off	x: 0=all, 1=TX, 2=RX
<code>set display rx control type y</code>	Set RX display control type	y = 3-bit: bit0 CEC, bit1 RS-232, bit2 IR (TX display is controlled by TX RS-232 only)
<code>get display rx control type</code>	Get RX display control type	—

CEC / SERIAL

COMMAND	FUNCTION	NOTES
<code>set display rx cec <y></code>	Send RX display CEC command	y = power on/off, active source, image/text view on, volume up/down/mute
<code>set display rx custom cec <y></code>	Send custom CEC command (hex)	e.g. <87 01>



continued

COMMAND	FUNCTION	NOTES
<code>set serial x setting y</code>	Set serial port config	x: 0=TX/RX, 1=TX, 2=RX; y e.g. 115200-8n1 (baud 2400-115200; data 7/8; parity n/o/e; stop 1/2; default 115200-8n1)
<code>get serial x setting</code>	Get serial port config	—
<code>set serial x HEX/ASCII power on <y1> delay <y2> input <y3></code>	Set serial power-on string	y1=command(s, comma-separated), y2=0-1200 sec, y3=input port(s); delay/input may be NULL
<code>set serial x HEX/ASCII power off <y1> delay <y2></code>	Set serial power-off string	y1=command(s), y2=0-1200 sec; delay may be NULL
<code>get serial x power on/off command</code>	Get serial power on/off string	x as above

IR / DIAGNOSTIC COMMANDS

COMMAND	FUNCTION	NOTES
<code>set ir learn power on/set ir learn power off</code>	Start IR power on/off learning	→ learning... / learning timeout / learning success
<code>set ir power on clear/set ir power off clear</code>	Clear learned IR power on/off	—
<code>set input x hpd</code>	Force input HPD low for 200ms	x: 0=all, 1=USBC1, 2=HDMI2
<code>set hdbt update</code>	Set SERVICE to HDBT UART for FW update	Internal use only
<code>get hdbt length</code>	Get HDBT cable length (m)	→ e.g. HDBT length: 70m
<code>get hdbt link</code>	Get HDBT link status	→ HDBT link: on
<code>get hdbt signal</code>	Get HDBT signal status	→ HDBT signal: on
<code>get hdbt error</code>	Get HDBT error	→ e.g. HDBT error: 3

status feedback (example): returns a banner (Status Info 4K HDMI/USB-C Extender), TX/RX firmware, key/baud/auto-switch/temperature/uptime, per-input cable/resolution/color-space/color-depth/HDCP, EDID selection, output status, display auto-power settings and USB device state.

Note: set hdbt update is for internal use only.

12. EDID modes

set tx edid to y selects the input EDID from this list:

Y	EDID
01	Copy EDID from RX HDMI output (default)
02	4K2K60 4:4:4, Audio 2CH PCM
03	4K2K60 4:4:4, Audio 5.1CH DTS/Dolby
04	4K2K60 4:4:4, Audio 7.1CH DTS/Dolby/HD
05	4K2K30 4:4:4, Audio 2CH PCM
06	4K2K30 4:4:4, Audio 5.1CH DTS/Dolby
07	4K2K30 4:4:4, Audio 7.1CH DTS/Dolby/HD
08	1080P60 4:4:4, Audio 2CH PCM



continued

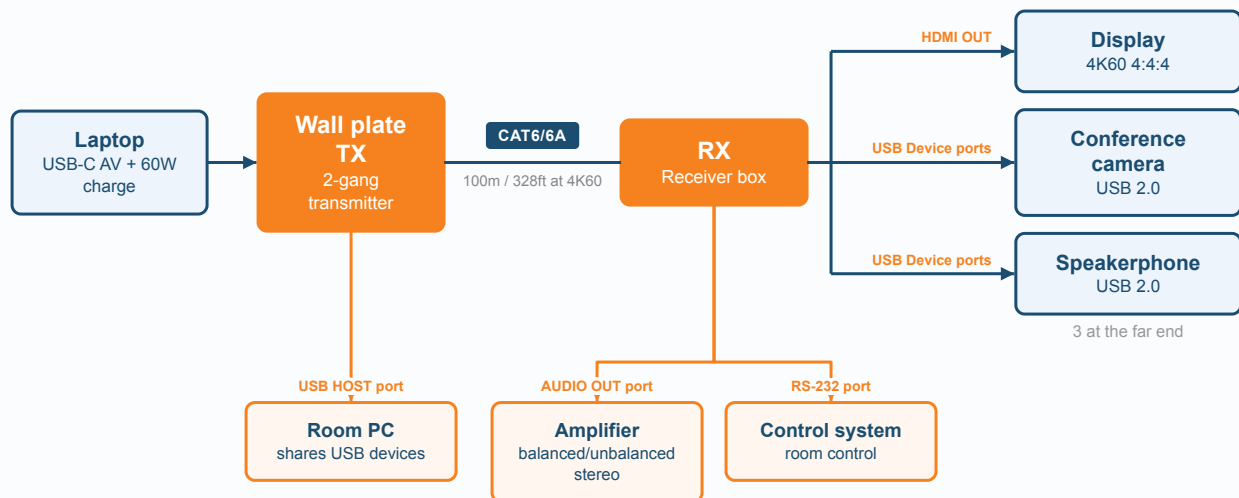
Y	EDID
09	1080P60 4:4:4, Audio 5.1CH DTS/Dolby
10	1080P60 4:4:4, Audio 7.1CH DTS/Dolby/HD
11	720P60 4:4:4, Audio 2CH PCM
12	1920×1200, Audio 2CH PCM
13	1680×1050, Audio 2CH PCM
14	1600×1200, Audio 2CH PCM
15	1440×900, Audio 2CH PCM
16	1360×768, Audio 2CH PCM
17	1280×1024, Audio 2CH PCM
18	1024×768, Audio 2CH PCM
19	User Defined 1
20	User Defined 2



13. Application Example

TYPICAL SETUP

4K60 HDMI & USB-C 2-Gang Wall Plate Extender Kit with USB 2.0 and 60W Charging, 100m



How it works: Both inputs carry up to 4K60 4:4:4 with HDCP 2.3 and HDR10, HDR10+, Dolby Vision and HLG pass-through; the USB-C input runs DisplayPort 1.2a Alt Mode and charges the laptop at up to 60W when the wall plate has its own 24V supply. USB 2.0 travels at up to 255Mbps, enough for conference cameras, speakerphones, keyboards, mice and touch displays, and a USB host port at the plate gives an HDMI-connected computer the same devices. Bidirectional IR and RS-232, CEC pass-through and a DISPLAY ON/OFF button at the plate let the room be run from the table or a control system, and bidirectional PoC lets the one included 24V supply power both units.

14. Installation FAQ

Q: Does the laptop charge when the wall plate is powered over the cable?

A: No. USB-C charging needs the 24V/5A supply connected to the wall plate's DC IN. When the wall plate is powered over the cable from the receiver (PoC), video and USB work but the USB-C port does not charge.

Q: How does input switching work?

A: Press INPUT to switch between HDMI and USB-C by hand; hold it for 3 seconds to turn auto switching on or off. Auto switching detects the signal and the source's 5V, and a priority mode is available.

Q: How is the kit powered?

A: One 24V/5A supply is included. Bidirectional PoC lets it power either end and the other unit over the CAT cable; connect it to the wall plate if the USB-C input should charge laptops.

15. Integration FAQ

Q: Can a computer on the HDMI input use the USB devices too?

A: Yes. The wall plate's USB HOST port (USB-B) is bound to the HDMI input, so a computer connected there by HDMI and USB gets the receiver's USB devices when HDMI is selected.

Q: What does the DISPLAY ON/OFF button do?

A: It turns the display on or off from the wall plate by CEC, RS-232 or IR from the receiver, whichever is enabled.



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kanexpro.com/item/WP-EXTHDTC100

Q: Can a control system drive it?

A: Yes. Bidirectional IR and RS-232 pass through, and the kit takes API commands over RS-232 or its USB-C SERVICE port. The wall plate's IR window also supports IR learning.

