

# MATRIX SWITCH

*Matrix switches deliver world-class distribution of your source material to every room in a residential installation. 4K Ultra HD products feature HDCP 2.2 compliancy, making them compatible with current and future 4K content and enabling homeowners to enjoy copy-protected 4K content on every TV throughout the house.*

## **FEATURES:**

- *Control each zone's audio or video settings individually, ensuring the best match between media source and destination playback.*
- *Leaf Ultra HD AV Matrix Switches let you distribute IR, RS232, and Ethernet signals to your media end points, bringing device control and high-speed networking right where you need it.*
- *Distributes HDMI sources to video display locations with full HD clarity.*
- *All video sources connect to the HDMI Matrix Switch in a central location, tucked away and out of sight (excludes Audio Matrix Switch).*

# Control4® Audio Matrix Switch



## Control4® Audio Matrix Switch C4-16ZAMSV3-B

The Control4® Audio Matrix Switch enables up to 16 stereo audio sources to simultaneously play to 16 audio outputs. Each output zone can be enhanced with individual gain control, as well as independent bass and treble control. Ideal for use with Control4 amplifiers when more than eight audio sources and/or audio zones are required.

- Send up to 16 audio sources to as many as 16 audio zones for full multi-room music distribution
- Wide dynamic range for accurate lows and highs with quick response to dynamic audio passages
- Smooth volume ramping (1/2 dB volume steps)
- Independent output gain, bass and treble control for each zone
- Independent input gain for each source provides consistent levels when switching between sources
- Audio sensing inputs provide control and feedback information to system
- Ethernet port for control
- Simple device discovery protocol (SDDP) for streamlined dealer setup
- Rack mount ears included
- 2U Rack Height



## Control4® Audio Matrix Switch

Model Number	C4-16ZAMSV3-B
Power Requirements	120 – 240 VAC, 50/60 Hz
Environmental	
Operational Temperature	32°F - 104°F (0°C - 40°C)
Humidity	5% to 95% Non-Condensing
Storage	-4° F - 158°F (-20°C - 70°C)
Additional Information	
Analog Input Sources	16 Stereo, RCA Style
Line Level Output Zones	16 Stereo, RCA Style
Signal-to-Noise Ratio	>95 dB
Network Connectivity	10/100 BaseT Ethernet
Tone Controls	Bass, Treble
Volume Steps	1/2 dB
Independent Gain Controls Per Zone	Yes
Independent Input Gain Per Source	Yes
Full Matrix Switching	Yes
Rack Mount Ears	Included
Dimensions & Weight	
Dimensions With Feet (H×W×D)	3.82" × 17.32" × 16.65" (97mm × 440mm × 423mm)
Dimensions Without Feet (H×W×D)	3.43" × 17.32" × 16.65" (87mm × 440mm × 423mm)
Weight	12.96 lbs (5.88 kg)
Shipping Weight	17.11 lbs (7.76 kg)



# Control4® 8x8 HDMI Matrix Switch



## Control4® 8x8 HDMI Matrix Switch C4-8ZVMS-B Control4® HDBaseT Receiver C4-HDBTEB-B

The Control4® 8x8 HDMI Matrix Switch distributes eight HDMI sources to eight video display locations with full HD clarity. All video sources connect to the HDMI Matrix Switch in a central location, tucked away and out of sight. As an added benefit, wiring and clutter are reduced substantially with HDBaseT distribution of HD video, audio, Ethernet and control over a single Cat-5e/6 cable to each TV location.

- Send eight HDMI sources to any eight video displays in full HD clarity (up to 1080p)
- Centralized placement of video sources and control equipment reduces wiring and equipment clutter at each TV location
- Eight HDBaseT outputs transmit video, audio, Ethernet and control (IR & RS-232) over a single Cat-5e/6 cable up to 328 feet away—Requires HDBaseT Receiver (Sold separately)
- Two HDMI outputs for local video display connections\*—no HDBaseT Receiver is required
- EDID management provides quick and reliable switching performance
- Zone-locking feature ensures maximum video and audio resolutions to zones such as home theaters and media rooms, regardless of equipment used in other areas of the home
- Simple Device Discovery Protocol (SDDP) and Composer-based EDID calibration tool for simplified dealer setup



8x8 HDMI Matrix Switch

HDBaseT Receiver

\* 2 HDMI outputs function only if HDBaseT outputs 7&8 are not being used and vice versa

## Control4® 8x8 HDMI Matrix Switch

Model Number	C4-8ZVMS-B
Video Inputs	8 HDMI
HDBaseT Video Outputs	8 RJ-45
Local Video Outputs	2 HDMI
Video Output Resolution	480i, 480p, 576i, 576p, 720p, 1080i, 1080p (60), 3D
Stereo Audio Outputs*	8 3.5mm stereo
Ethernet ports, pass through	8 RJ-45
RS-232 ports	8 3.5mm stereo
IR ports, bi-directional	8 3.5mm stereo
Network Connectivity	10/100 BaseT Ethernet, RJ-45
Rack Mount Ears	Included
Power Requirements	12VDC, 1.5A
<b>Environmental</b>	
Operational Temperature	32°F - 104°F (0°C - 40°C)
Humidity	5% to 95% Non-Condensing
Storage	-4° F - 158°F (-20°C - 70°C)
<b>Miscellaneous</b>	
Dimensions (H×W×D) With Feet	17.3" × 10.1" × 3.9" (440mm × 257mm × 100mm)
Dimensions (H×W×D) Without Feet	17.3" × 10.1" × 3.6" (440mm × 257mm × 91mm)
Weight	8.64 lbs (3.92 kg)
Shipping Weight	12.48 lbs (5.66 kg)

\*Audio outputs do not pass multichannel audio such as Dolby Digital, DTS, etc.

## Control4® HDBaseT Receiver

Model Number	C4-HDBTEB-B
Video Output	1 HDMI
HDBaseT Input	1 RJ-45
Ethernet port	1 RJ-45
RS-232 port	1 3.5mm stereo
IR port	1 3.5mm stereo
Output Resolution	480i, 480p, 576i, 576p, 720p, 1080i, 1080p (60), 3D
Power Requirements	12VDC, 2A
<b>Environmental</b>	
Operational Temperature	32° F - 104° F (0° C - 40° C)
Humidity	5% to 95% non-condensing
Storage	-4° F - 158° F (-20° C - 70° C)
<b>Miscellaneous</b>	
Dimensions (H×W×D)	4.0" × 4.8" × 0.9" (102mm × 123mm × 23mm) with mount
Weight	1.3 lbs (0.6 kg)
Shipping Weight	3.0 lbs (1.35 kg)



# Control4® 4K Ultra HD LU Series HDMI Matrix System



Control4® 4K Ultra HD LU Series HDMI Matrix System  
C4-LU1082D, C4-LU862D, C4-LU642D  
C4-LU1082, C4-LU862, C4-LU642, C4-LU642L-KIT  
C4-LU1E, C4-LU1, LTPTP-F, LTPTP-L

The Control4® 4K Ultra HD HDMI Matrix System comprises a Control4 4K Ultra HD AV Matrix Switch (C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642, C4-LU642L), Control4 4K HDBaseT Receivers (C4-LU1E, C4-LU1) and Control4 4K Point-to-Point Kits (LTPTP-F, LTPTP-L). The Control4 4K Ultra HD HDMI Matrix System is designed to accept HDMI AV sources at its inputs and route them to remotely located HDBaseT receivers along with control and Ethernet (C4-LU1E only) signals.

The LU1082D/862D/642D models introduce audio downmixing to the LU series to offer you even greater flexibility in where and how you enjoy your media. The D models can downmix and distribute surround sound audio from any of the HDMI inputs to the stereo audio outputs, allowing you to enjoy your 4K sources anywhere in your house.



## Control4® 4K Ultra HD LU Series - HDMI Matrix Switches

Audio/Video							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats.						
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported. HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)						
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM						
<b>HDCP</b>	All video inputs and outputs support HDCP 1.4 and HDCP 2.2						
<b>HDMI inputs</b>	10	8	6	10	8	6	6
<b>HDMI outputs</b>	2	2	2	2	2	2	2
	HDMI outputs can be switched independently from HDBT outputs or locked to mirror specified HDBT outputs.						
<b>HDBaseT outputs</b>	8	6	4	8	6	4	4
	One CAT5e/6/7 cable carries video, audio, Ethernet, IR, RS232 and power for the HDBaseT receiver. Maximum bandwidth: 10.2 Gbps						
<b>Audio inputs</b>	8	8	8	8	8	8	-
	Audio inputs support 44.1 kHz, 48 kHz, 96 kHz audio in both 16 bit and 24 bit. S/PDIF (coax/RCA) connectors.						
<b>Audio outputs</b>	8	8	8	8	8	8	-
	Analog stereo derived from all audio formats listed above. Programmable audio delay up to approximately 255 ms. Outputs match and follow HDBaseT/HDMI outputs. RCA stereo connectors.						
<b>Audio downmixing</b>	Yes	Yes	Yes	-	-	-	-
	Models supporting audio downmixing can simultaneously output supported surround formats and downmixed stereo audio over HDMI, HDBaseT, and analog audio outputs.						
Automation system integration							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.						
<b>RS232 over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RS232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.						
<b>Audio breakout</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audio is de-embedded from HDMI source and made available for distribution throughout the system through audio outputs.						
<b>Ethernet</b>	1000Base-T Ethernet Port with internal Ethernet switch supporting 100Base-TX full-duplex Ethernet routing to all remote HDBaseT ports. RJ45 shielded connector.						
<b>Ethernet over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	-
<b>Max HDBaseT range**</b>	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	230' (70m)
<b>Status LEDs</b>	Front panel LEDs: Power, Link, Media, Alert						
<b>Configuration</b>	Using integrated web-based management console and Composer Pro						
<b>Control4 integration</b>	Control4-certified driver supports control over IP or RS-232, and device discovery through SDDP or ID push button.						
Environmental							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Power requirements</b>	Internal power supply 110 - 240VAC, 50/60 Hz Maximum consumption: 192W (allow +20% when sizing)						
<b>Cooling requirements</b>	465 BTU/hr max						
<b>Operating environment</b>	32°F (0°C) - 104°F (40°C); 10% - 90% humidity, non-condensing						
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing						
<b>Dimensions (W x D x H)</b>	17.7" (450 mm) x 10.4" (265 mm) x 3.5" (88 mm), 3.8" (97 mm) with feet. 2 rack units.						
<b>Net weight</b>	12.3 lb (5.6 kg)						
<b>Regulatory</b>	CE, FCC, RoHS, C-Tick						
Accessories							
<b>Included accessories</b>	Power cord, rack mount ears and screws, switch feet and screws, self-adhesive hook-and-loop mounting strips for mounting HDBaseT receivers.						
<b>HDBaseT receivers</b>	C4-LU1E for use with C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642 C4-LU1 supplied as part of C4-LU642L-KIT						
<b>HDBaseT extender kits</b>	HDBaseT Full Extender Kit (C4-LTPPT-F) HDBaseT Lite Extender Kit (C4-LTPPT-L)						

\*For a full list of supported video formats, see the last page of this document

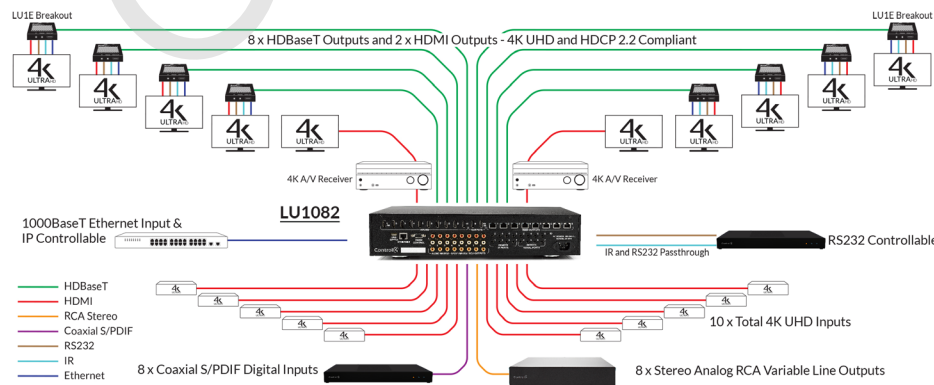
\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))

# Control4® 4K Ultra HD LU Series - HDBaseT Receivers

Audio/Video				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats			
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)			
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM			
<b>HDCP</b>	HDCP 1.4 and HDCP 2.2			
<b>HDMI inputs</b>	-	-	TX: 1	TX: 1
<b>HDMI outputs</b>	1	1	RX: 1	RX: 1
<b>HDBaseT</b>	1	1	1 per TX and RX	1 per TX and RX
One Cat5e/6/7 cable carries video, audio, Ethernet, IR, RS-232 and power. Maximum bandwidth: 10.2 Gbps				
Automation system integration				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes
IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.				
<b>RS-232 over HDBaseT</b>	Yes	Yes	Yes	Yes
RS-232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.				
<b>Ethernet over HDBaseT</b>	100Base-TX full-duplex Ethernet supplied from LU switch. RJ45 shielded connector.		-	-
<b>Max HDBaseT range**</b>	330 ft (100 m)	230 ft (70 m)	330 ft (100 m)	230 ft (70 m)
Environmental				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Power requirements</b>	Supplied by C4-LU switch		15W @ 48V DC	
<b>Dimensions</b>	3" (76 mm) x 3.25" (83 mm) x 0.66" (17 mm)		3.93" (100 mm) x 4.8" (122 mm) x 1" (25 mm) each RX and TX	
<b>Weight</b>			2.9 lb (1.3 kg) with power supplies	
<b>Net weight</b>	3.6 oz (103 g)		0.77 lb (.35 kg) for each TX or RX	
<b>Operating environment</b>	32°F (0° C) - 104°F (40°C); 10% - 90% humidity, non-condensing			
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing			

\*For a full list of supported video formats, see the last page of this document

\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))



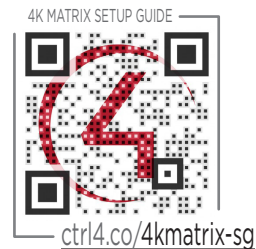
C4-LU1E



C4-LU1



For the full setup guide for the 4K UHD LU Series, visit [ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg)



For product photos and more documentation, visit [ctrl4.co/4kmatrix](http://ctrl4.co/4kmatrix)







# Control4® 4K Ultra HD LU Series HDMI Matrix System



Control4® 4K Ultra HD LU Series HDMI Matrix System  
C4-LU1082D, C4-LU862D, C4-LU642D  
C4-LU1082, C4-LU862, C4-LU642, C4-LU642L-KIT  
C4-LU1E, C4-LU1, LTPTP-F, LTPTP-L

The Control4® 4K Ultra HD HDMI Matrix System comprises a Control4 4K Ultra HD AV Matrix Switch (C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642, C4-LU642L), Control4 4K HDBaseT Receivers (C4-LU1E, C4-LU1) and Control4 4K Point-to-Point Kits (LTPTP-F, LTPTP-L). The Control4 4K Ultra HD HDMI Matrix System is designed to accept HDMI AV sources at its inputs and route them to remotely located HDBaseT receivers along with control and Ethernet (C4-LU1E only) signals.

The LU1082D/862D/642D models introduce audio downmixing to the LU series to offer you even greater flexibility in where and how you enjoy your media. The D models can downmix and distribute surround sound audio from any of the HDMI inputs to the stereo audio outputs, allowing you to enjoy your 4K sources anywhere in your house.

C4-LU1082D



C4-LU862D



C4-LU642D



C4-LU1082



C4-LU862



C4-LU642



LTPTP-F/LTPTP-L



C4-LU1E



C4-LU642L-KIT



## Control4® 4K Ultra HD LU Series - HDMI Matrix Switches

Audio/Video							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats.						
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported. HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)						
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM						
<b>HDCP</b>	All video inputs and outputs support HDCP 1.4 and HDCP 2.2						
<b>HDMI inputs</b>	10	8	6	10	8	6	6
<b>HDMI outputs</b>	2	2	2	2	2	2	2
	HDMI outputs can be switched independently from HDBT outputs or locked to mirror specified HDBT outputs.						
<b>HDBaseT outputs</b>	8	6	4	8	6	4	4
	One CAT5e/6/7 cable carries video, audio, Ethernet, IR, RS232 and power for the HDBaseT receiver. Maximum bandwidth: 10.2 Gbps						
<b>Audio inputs</b>	8	8	8	8	8	8	-
	Audio inputs support 44.1 kHz, 48 kHz, 96 kHz audio in both 16 bit and 24 bit. S/PDIF (coax/RCA) connectors.						
<b>Audio outputs</b>	8	8	8	8	8	8	-
	Analog stereo derived from all audio formats listed above. Programmable audio delay up to approximately 255 ms. Outputs match and follow HDBaseT/HDMI outputs. RCA stereo connectors.						
<b>Audio downmixing</b>	Yes	Yes	Yes	-	-	-	-
	Models supporting audio downmixing can simultaneously output supported surround formats and downmixed stereo audio over HDMI, HDBaseT, and analog audio outputs.						
Automation system integration							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.						
<b>RS232 over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RS232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.						
<b>Audio breakout</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audio is de-embedded from HDMI source and made available for distribution throughout the system through audio outputs.						
<b>Ethernet</b>	1000Base-T Ethernet Port with internal Ethernet switch supporting 100Base-TX full-duplex Ethernet routing to all remote HDBaseT ports. RJ45 shielded connector.						
<b>Ethernet over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	-
<b>Max HDBaseT range**</b>	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	230' (70m)
<b>Status LEDs</b>	Front panel LEDs: Power, Link, Media, Alert						
<b>Configuration</b>	Using integrated web-based management console and Composer Pro						
<b>Control4 integration</b>	Control4-certified driver supports control over IP or RS-232, and device discovery through SDDP or ID push button.						
Environmental							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Power requirements</b>	Internal power supply 110 - 240VAC, 50/60 Hz Maximum consumption: 192W (allow +20% when sizing)						
<b>Cooling requirements</b>	465 BTU/hr max						
<b>Operating environment</b>	32°F (0°C) - 104°F (40°C); 10% - 90% humidity, non-condensing						
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing						
<b>Dimensions (W x D x H)</b>	17.7" (450 mm) x 10.4" (265 mm) x 3.5" (88 mm), 3.8" (97 mm) with feet. 2 rack units.						
<b>Net weight</b>	12.3 lb (5.6 kg)						
<b>Regulatory</b>	CE, FCC, RoHS, C-Tick						
Accessories							
<b>Included accessories</b>	Power cord, rack mount ears and screws, switch feet and screws, self-adhesive hook-and-loop mounting strips for mounting HDBaseT receivers.						
<b>HDBaseT receivers</b>	C4-LU1E for use with C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642 C4-LU1 supplied as part of C4-LU642L-KIT						
<b>HDBaseT extender kits</b>	HDBaseT Full Extender Kit (C4-LTPPT-F) HDBaseT Lite Extender Kit (C4-LTPPT-L)						

\*For a full list of supported video formats, see the last page of this document

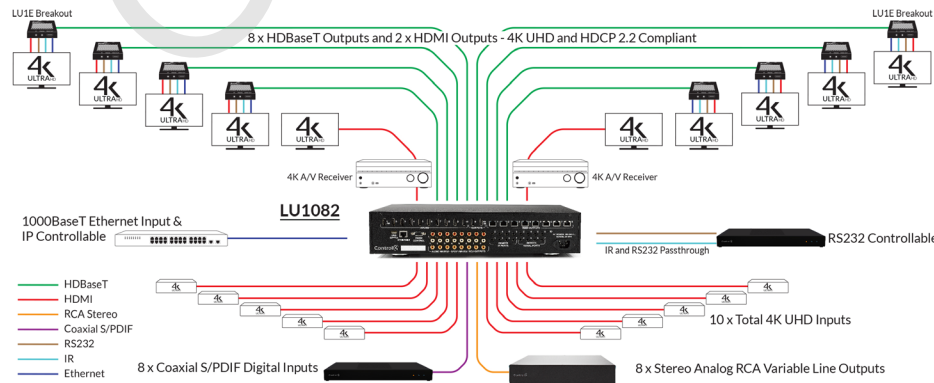
\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))

# Control4® 4K Ultra HD LU Series - HDBaseT Receivers

Audio/Video				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats			
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)			
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM			
<b>HDCP</b>	HDCP 1.4 and HDCP 2.2			
<b>HDMI inputs</b>	-	-	TX: 1	TX: 1
<b>HDMI outputs</b>	1	1	RX: 1	RX: 1
<b>HDBaseT</b>	1	1	1 per TX and RX	1 per TX and RX
One Cat5e/6/7 cable carries video, audio, Ethernet, IR, RS-232 and power. Maximum bandwidth: 10.2 Gbps				
Automation system integration				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes
IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.				
<b>RS-232 over HDBaseT</b>	Yes	Yes	Yes	Yes
RS-232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.				
<b>Ethernet over HDBaseT</b>	100Base-TX full-duplex Ethernet supplied from LU switch. RJ45 shielded connector.		-	-
<b>Max HDBaseT range**</b>	330 ft (100 m)	230 ft (70 m)	330 ft (100 m)	230 ft (70 m)
Environmental				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Power requirements</b>	Supplied by C4-LU switch		15W @ 48V DC	
<b>Dimensions</b>	3" (76 mm) x 3.25" (83 mm) x 0.66" (17 mm)		3.93" (100 mm) x 4.8" (122 mm) x 1" (25 mm) each RX and TX	
<b>Weight</b>			2.9 lb (1.3 kg) with power supplies	
<b>Net weight</b>	3.6 oz (103 g)		0.77 lb (.35 kg) for each TX or RX	
<b>Operating environment</b>	32°F (0° C) - 104°F (40°C); 10% - 90% humidity, non-condensing			
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing			

\*For a full list of supported video formats, see the last page of this document

\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))



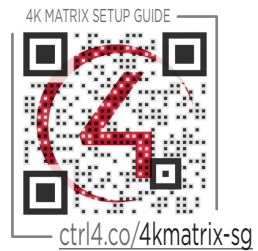
C4-LU1E



C4-LU1



For the full setup guide for the 4K UHD LU Series, visit [ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg)



For product photos and more documentation, visit [ctrl4.co/4kmatrix](http://ctrl4.co/4kmatrix)





# Control4® 4K Ultra HD LU Series HDMI Matrix System



Control4® 4K Ultra HD LU Series HDMI Matrix System  
C4-LU1082D, C4-LU862D, C4-LU642D  
C4-LU1082, C4-LU862, C4-LU642, C4-LU642L-KIT  
C4-LU1E, C4-LU1, LTPTP-F, LTPTP-L

The Control4® 4K Ultra HD HDMI Matrix System comprises a Control4 4K Ultra HD AV Matrix Switch (C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642, C4-LU642L), Control4 4K HDBaseT Receivers (C4-LU1E, C4-LU1) and Control4 4K Point-to-Point Kits (LTPTP-F, LTPTP-L). The Control4 4K Ultra HD HDMI Matrix System is designed to accept HDMI AV sources at its inputs and route them to remotely located HDBaseT receivers along with control and Ethernet (C4-LU1E only) signals.

The LU1082D/862D/642D models introduce audio downmixing to the LU series to offer you even greater flexibility in where and how you enjoy your media. The D models can downmix and distribute surround sound audio from any of the HDMI inputs to the stereo audio outputs, allowing you to enjoy your 4K sources anywhere in your house.

C4-LU1082D



C4-LU862D



C4-LU642D



C4-LU1082



C4-LU862



C4-LU642



LTPTP-F/LTPTP-L



C4-LU1E



C4-LU642L-KIT



## Control4® 4K Ultra HD LU Series - HDMI Matrix Switches

Audio/Video							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats.						
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported. HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)						
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM						
<b>HDCP</b>	All video inputs and outputs support HDCP 1.4 and HDCP 2.2						
<b>HDMI inputs</b>	10	8	6	10	8	6	6
<b>HDMI outputs</b>	2	2	2	2	2	2	2
	HDMI outputs can be switched independently from HDBT outputs or locked to mirror specified HDBT outputs.						
<b>HDBaseT outputs</b>	8	6	4	8	6	4	4
	One CAT5e/6/7 cable carries video, audio, Ethernet, IR, RS232 and power for the HDBaseT receiver. Maximum bandwidth: 10.2 Gbps						
<b>Audio inputs</b>	8	8	8	8	8	8	-
	Audio inputs support 44.1 kHz, 48 kHz, 96 kHz audio in both 16 bit and 24 bit. S/PDIF (coax/RCA) connectors.						
<b>Audio outputs</b>	8	8	8	8	8	8	-
	Analog stereo derived from all audio formats listed above. Programmable audio delay up to approximately 255 ms. Outputs match and follow HDBaseT/HDMI outputs. RCA stereo connectors.						
<b>Audio downmixing</b>	Yes	Yes	Yes	-	-	-	-
	Models supporting audio downmixing can simultaneously output supported surround formats and downmixed stereo audio over HDMI, HDBaseT, and analog audio outputs.						
Automation system integration							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.						
<b>RS232 over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RS232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.						
<b>Audio breakout</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audio is de-embedded from HDMI source and made available for distribution throughout the system through audio outputs.						
<b>Ethernet</b>	1000Base-T Ethernet Port with internal Ethernet switch supporting 100Base-TX full-duplex Ethernet routing to all remote HDBaseT ports. RJ45 shielded connector.						
<b>Ethernet over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	-
<b>Max HDBaseT range**</b>	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	230' (70m)
<b>Status LEDs</b>	Front panel LEDs: Power, Link, Media, Alert						
<b>Configuration</b>	Using integrated web-based management console and Composer Pro						
<b>Control4 integration</b>	Control4-certified driver supports control over IP or RS-232, and device discovery through SDDP or ID push button.						
Environmental							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Power requirements</b>	Internal power supply 110 - 240VAC, 50/60 Hz Maximum consumption: 192W (allow +20% when sizing)						
<b>Cooling requirements</b>	465 BTU/hr max						
<b>Operating environment</b>	32°F (0°C) - 104°F (40°C); 10% - 90% humidity, non-condensing						
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing						
<b>Dimensions (W x D x H)</b>	17.7" (450 mm) x 10.4" (265 mm) x 3.5" (88 mm), 3.8" (97 mm) with feet. 2 rack units.						
<b>Net weight</b>	12.3 lb (5.6 kg)						
<b>Regulatory</b>	CE, FCC, RoHS, C-Tick						
Accessories							
<b>Included accessories</b>	Power cord, rack mount ears and screws, switch feet and screws, self-adhesive hook-and-loop mounting strips for mounting HDBaseT receivers.						
<b>HDBaseT receivers</b>	C4-LU1E for use with C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642 C4-LU1 supplied as part of C4-LU642L-KIT						
<b>HDBaseT extender kits</b>	HDBaseT Full Extender Kit (C4-LTPPT-F) HDBaseT Lite Extender Kit (C4-LTPPT-L)						

\*For a full list of supported video formats, see the last page of this document

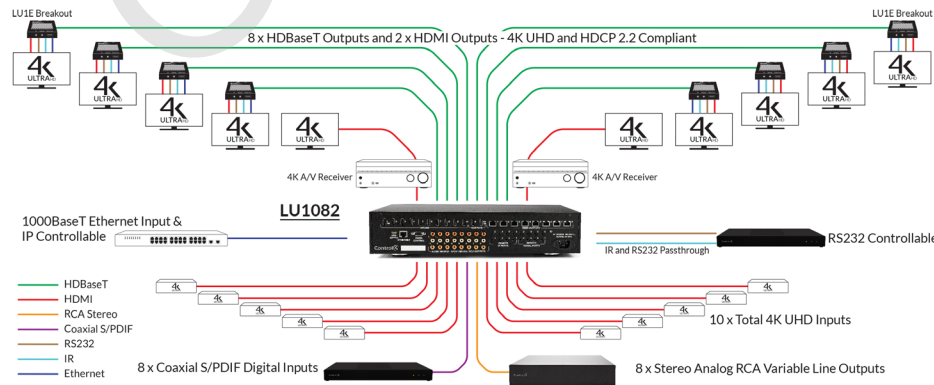
\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))

# Control4® 4K Ultra HD LU Series - HDBaseT Receivers

Audio/Video				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats			
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)			
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM			
<b>HDCP</b>	HDCP 1.4 and HDCP 2.2			
<b>HDMI inputs</b>	-	-	TX: 1	TX: 1
<b>HDMI outputs</b>	1	1	RX: 1	RX: 1
<b>HDBaseT</b>	1	1	1 per TX and RX	1 per TX and RX
One Cat5e/6/7 cable carries video, audio, Ethernet, IR, RS-232 and power. Maximum bandwidth: 10.2 Gbps				
Automation system integration				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes
IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.				
<b>RS-232 over HDBaseT</b>	Yes	Yes	Yes	Yes
RS-232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.				
<b>Ethernet over HDBaseT</b>	100Base-TX full-duplex Ethernet supplied from LU switch. RJ45 shielded connector.		-	-
<b>Max HDBaseT range**</b>	330 ft (100 m)	230 ft (70 m)	330 ft (100 m)	230 ft (70 m)
Environmental				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Power requirements</b>	Supplied by C4-LU switch		15W @ 48V DC	
<b>Dimensions</b>	3" (76 mm) x 3.25" (83 mm) x 0.66" (17 mm)		3.93" (100 mm) x 4.8" (122 mm) x 1" (25 mm) each RX and TX	
<b>Weight</b>			2.9 lb (1.3 kg) with power supplies	
<b>Net weight</b>	3.6 oz (103 g)		0.77 lb (.35 kg) for each TX or RX	
<b>Operating environment</b>	32°F (0° C) - 104°F (40°C); 10% - 90% humidity, non-condensing			
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing			

\*For a full list of supported video formats, see the last page of this document

\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))



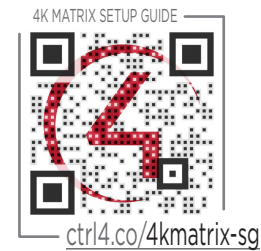
C4-LU1E



C4-LU1



For the full setup guide for the 4K UHD LU Series, visit [ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg)



For product photos and more documentation, visit [ctrl4.co/4kmatrix](http://ctrl4.co/4kmatrix)







# Control4® 4K Ultra HD LU Series HDMI Matrix System



Control4® 4K Ultra HD LU Series HDMI Matrix System  
C4-LU1082D, C4-LU862D, C4-LU642D  
C4-LU1082, C4-LU862, C4-LU642, C4-LU642L-KIT  
C4-LU1E, C4-LU1, LTPTP-F, LTPTP-L

The Control4® 4K Ultra HD HDMI Matrix System comprises a Control4 4K Ultra HD AV Matrix Switch (C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642, C4-LU642L), Control4 4K HDBaseT Receivers (C4-LU1E, C4-LU1) and Control4 4K Point-to-Point Kits (LTPTP-F, LTPTP-L). The Control4 4K Ultra HD HDMI Matrix System is designed to accept HDMI AV sources at its inputs and route them to remotely located HDBaseT receivers along with control and Ethernet (C4-LU1E only) signals.

The LU1082D/862D/642D models introduce audio downmixing to the LU series to offer you even greater flexibility in where and how you enjoy your media. The D models can downmix and distribute surround sound audio from any of the HDMI inputs to the stereo audio outputs, allowing you to enjoy your 4K sources anywhere in your house.

C4-LU1082D



C4-LU862D



C4-LU642D



C4-LU1082



C4-LU862



C4-LU642



LTPTP-F/LTPTP-L



C4-LU1E



C4-LU642L-KIT



## Control4® 4K Ultra HD LU Series - HDMI Matrix Switches

Audio/Video							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats.						
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported. HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)						
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM						
<b>HDCP</b>	All video inputs and outputs support HDCP 1.4 and HDCP 2.2						
<b>HDMI inputs</b>	10	8	6	10	8	6	6
<b>HDMI outputs</b>	2	2	2	2	2	2	2
	HDMI outputs can be switched independently from HDBT outputs or locked to mirror specified HDBT outputs.						
<b>HDBaseT outputs</b>	8	6	4	8	6	4	4
	One CAT5e/6/7 cable carries video, audio, Ethernet, IR, RS232 and power for the HDBaseT receiver. Maximum bandwidth: 10.2 Gbps						
<b>Audio inputs</b>	8	8	8	8	8	8	-
	Audio inputs support 44.1 kHz, 48 kHz, 96 kHz audio in both 16 bit and 24 bit. S/PDIF (coax/RCA) connectors.						
<b>Audio outputs</b>	8	8	8	8	8	8	-
	Analog stereo derived from all audio formats listed above. Programmable audio delay up to approximately 255 ms. Outputs match and follow HDBaseT/HDMI outputs. RCA stereo connectors.						
<b>Audio downmixing</b>	Yes	Yes	Yes	-	-	-	-
	Models supporting audio downmixing can simultaneously output supported surround formats and downmixed stereo audio over HDMI, HDBaseT, and analog audio outputs.						
Automation system integration							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.						
<b>RS232 over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RS232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.						
<b>Audio breakout</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audio is de-embedded from HDMI source and made available for distribution throughout the system through audio outputs.						
<b>Ethernet</b>	1000Base-T Ethernet Port with internal Ethernet switch supporting 100Base-TX full-duplex Ethernet routing to all remote HDBaseT ports. RJ45 shielded connector.						
<b>Ethernet over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	-
<b>Max HDBaseT range**</b>	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	230' (70m)
<b>Status LEDs</b>	Front panel LEDs: Power, Link, Media, Alert						
<b>Configuration</b>	Using integrated web-based management console and Composer Pro						
<b>Control4 integration</b>	Control4-certified driver supports control over IP or RS-232, and device discovery through SDDP or ID push button.						
Environmental							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Power requirements</b>	Internal power supply 110 - 240VAC, 50/60 Hz Maximum consumption: 192W (allow +20% when sizing)						
<b>Cooling requirements</b>	465 BTU/hr max						
<b>Operating environment</b>	32°F (0°C) - 104°F (40°C); 10% - 90% humidity, non-condensing						
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing						
<b>Dimensions (W x D x H)</b>	17.7" (450 mm) x 10.4" (265 mm) x 3.5" (88 mm), 3.8" (97 mm) with feet. 2 rack units.						
<b>Net weight</b>	12.3 lb (5.6 kg)						
<b>Regulatory</b>	CE, FCC, RoHS, C-Tick						
Accessories							
<b>Included accessories</b>	Power cord, rack mount ears and screws, switch feet and screws, self-adhesive hook-and-loop mounting strips for mounting HDBaseT receivers.						
<b>HDBaseT receivers</b>	C4-LU1E for use with C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642 C4-LU1 supplied as part of C4-LU642L-KIT						
<b>HDBaseT extender kits</b>	HDBaseT Full Extender Kit (C4-LTPPT-F) HDBaseT Lite Extender Kit (C4-LTPPT-L)						

\*For a full list of supported video formats, see the last page of this document

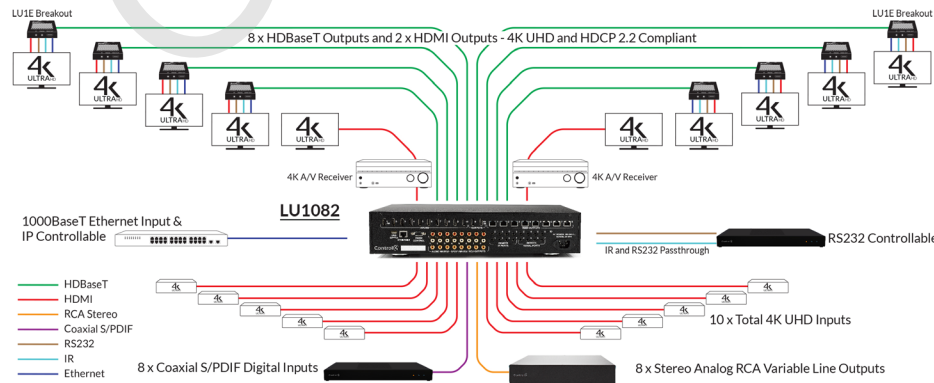
\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))

# Control4® 4K Ultra HD LU Series - HDBaseT Receivers

Audio/Video				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats			
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)			
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM			
<b>HDCP</b>	HDCP 1.4 and HDCP 2.2			
<b>HDMI inputs</b>	-	-	TX: 1	TX: 1
<b>HDMI outputs</b>	1	1	RX: 1	RX: 1
<b>HDBaseT</b>	1	1	1 per TX and RX	1 per TX and RX
One Cat5e/6/7 cable carries video, audio, Ethernet, IR, RS-232 and power. Maximum bandwidth: 10.2 Gbps				
Automation system integration				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes
IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.				
<b>RS-232 over HDBaseT</b>	Yes	Yes	Yes	Yes
RS-232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.				
<b>Ethernet over HDBaseT</b>	100Base-TX full-duplex Ethernet supplied from LU switch. RJ45 shielded connector.		-	-
<b>Max HDBaseT range**</b>	330 ft (100 m)	230 ft (70 m)	330 ft (100 m)	230 ft (70 m)
Environmental				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Power requirements</b>	Supplied by C4-LU switch		15W @ 48V DC	
<b>Dimensions</b>	3" (76 mm) x 3.25" (83 mm) x 0.66" (17 mm)		3.93" (100 mm) x 4.8" (122 mm) x 1" (25 mm) each RX and TX	
<b>Weight</b>			2.9 lb (1.3 kg) with power supplies	
<b>Net weight</b>	3.6 oz (103 g)		0.77 lb (.35 kg) for each TX or RX	
<b>Operating environment</b>	32°F (0° C) - 104°F (40°C); 10% - 90% humidity, non-condensing			
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing			

\*For a full list of supported video formats, see the last page of this document

\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))



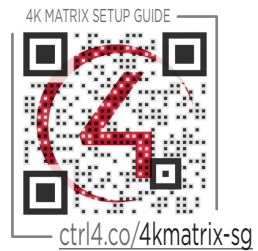
C4-LU1E



C4-LU1



For the full setup guide for the 4K UHD LU Series, visit [ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg)



For product photos and more documentation, visit [ctrl4.co/4kmatrix](http://ctrl4.co/4kmatrix)





# Control4® 4K Ultra HD LU Series HDMI Matrix System



Control4® 4K Ultra HD LU Series HDMI Matrix System  
C4-LU1082D, C4-LU862D, C4-LU642D  
C4-LU1082, C4-LU862, C4-LU642, C4-LU642L-KIT  
C4-LU1E, C4-LU1, LTPTP-F, LTPTP-L

The Control4® 4K Ultra HD HDMI Matrix System comprises a Control4 4K Ultra HD AV Matrix Switch (C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642, C4-LU642L), Control4 4K HDBaseT Receivers (C4-LU1E, C4-LU1) and Control4 4K Point-to-Point Kits (LTPTP-F, LTPTP-L). The Control4 4K Ultra HD HDMI Matrix System is designed to accept HDMI AV sources at its inputs and route them to remotely located HDBaseT receivers along with control and Ethernet (C4-LU1E only) signals.

The LU1082D/862D/642D models introduce audio downmixing to the LU series to offer you even greater flexibility in where and how you enjoy your media. The D models can downmix and distribute surround sound audio from any of the HDMI inputs to the stereo audio outputs, allowing you to enjoy your 4K sources anywhere in your house.

C4-LU1082D



C4-LU862D



C4-LU642D



C4-LU1082



C4-LU862



C4-LU642



LTPTP-F/LTPTP-L



C4-LU1E



C4-LU642L-KIT



## Control4® 4K Ultra HD LU Series - HDMI Matrix Switches

Audio/Video							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats.						
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported. HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)						
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM						
<b>HDCP</b>	All video inputs and outputs support HDCP 1.4 and HDCP 2.2						
<b>HDMI inputs</b>	10	8	6	10	8	6	6
<b>HDMI outputs</b>	2	2	2	2	2	2	2
	HDMI outputs can be switched independently from HDBT outputs or locked to mirror specified HDBT outputs.						
<b>HDBaseT outputs</b>	8	6	4	8	6	4	4
	One CAT5e/6/7 cable carries video, audio, Ethernet, IR, RS232 and power for the HDBaseT receiver. Maximum bandwidth: 10.2 Gbps						
<b>Audio inputs</b>	8	8	8	8	8	8	-
	Audio inputs support 44.1 kHz, 48 kHz, 96 kHz audio in both 16 bit and 24 bit. S/PDIF (coax/RCA) connectors.						
<b>Audio outputs</b>	8	8	8	8	8	8	-
	Analog stereo derived from all audio formats listed above. Programmable audio delay up to approximately 255 ms. Outputs match and follow HDBaseT/HDMI outputs. RCA stereo connectors.						
<b>Audio downmixing</b>	Yes	Yes	Yes	-	-	-	-
	Models supporting audio downmixing can simultaneously output supported surround formats and downmixed stereo audio over HDMI, HDBaseT, and analog audio outputs.						
Automation system integration							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.						
<b>RS232 over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RS232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.						
<b>Audio breakout</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audio is de-embedded from HDMI source and made available for distribution throughout the system through audio outputs.						
<b>Ethernet</b>	1000Base-T Ethernet Port with internal Ethernet switch supporting 100Base-TX full-duplex Ethernet routing to all remote HDBaseT ports. RJ45 shielded connector.						
<b>Ethernet over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	-
<b>Max HDBaseT range**</b>	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	230' (70m)
<b>Status LEDs</b>	Front panel LEDs: Power, Link, Media, Alert						
<b>Configuration</b>	Using integrated web-based management console and Composer Pro						
<b>Control4 integration</b>	Control4-certified driver supports control over IP or RS-232, and device discovery through SDDP or ID push button.						
Environmental							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Power requirements</b>	Internal power supply 110 - 240VAC, 50/60 Hz Maximum consumption: 192W (allow +20% when sizing)						
<b>Cooling requirements</b>	465 BTU/hr max						
<b>Operating environment</b>	32°F (0°C) - 104°F (40°C); 10% - 90% humidity, non-condensing						
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing						
<b>Dimensions (W x D x H)</b>	17.7" (450 mm) x 10.4" (265 mm) x 3.5" (88 mm), 3.8" (97 mm) with feet. 2 rack units.						
<b>Net weight</b>	12.3 lb (5.6 kg)						
<b>Regulatory</b>	CE, FCC, RoHS, C-Tick						
Accessories							
<b>Included accessories</b>	Power cord, rack mount ears and screws, switch feet and screws, self-adhesive hook-and-loop mounting strips for mounting HDBaseT receivers.						
<b>HDBaseT receivers</b>	C4-LU1E for use with C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642 C4-LU1 supplied as part of C4-LU642L-KIT						
<b>HDBaseT extender kits</b>	HDBaseT Full Extender Kit (C4-LTPPT-F) HDBaseT Lite Extender Kit (C4-LTPPT-L)						

\*For a full list of supported video formats, see the last page of this document

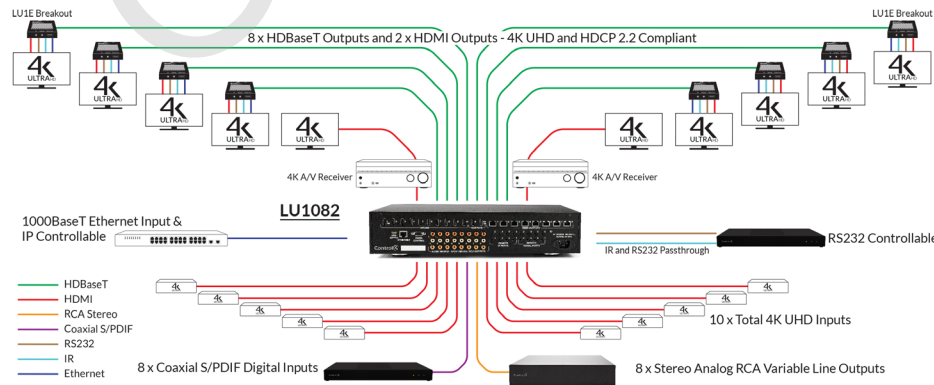
\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))

# Control4® 4K Ultra HD LU Series - HDBaseT Receivers

Audio/Video				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats			
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)			
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM			
<b>HDCP</b>	HDCP 1.4 and HDCP 2.2			
<b>HDMI inputs</b>	-	-	TX: 1	TX: 1
<b>HDMI outputs</b>	1	1	RX: 1	RX: 1
<b>HDBaseT</b>	1	1	1 per TX and RX	1 per TX and RX
One Cat5e/6/7 cable carries video, audio, Ethernet, IR, RS-232 and power. Maximum bandwidth: 10.2 Gbps				
Automation system integration				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes
IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.				
<b>RS-232 over HDBaseT</b>	Yes	Yes	Yes	Yes
RS-232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.				
<b>Ethernet over HDBaseT</b>	100Base-TX full-duplex Ethernet supplied from LU switch. RJ45 shielded connector.		-	-
<b>Max HDBaseT range**</b>	330 ft (100 m)	230 ft (70 m)	330 ft (100 m)	230 ft (70 m)
Environmental				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Power requirements</b>	Supplied by C4-LU switch		15W @ 48V DC	
<b>Dimensions</b>	3" (76 mm) x 3.25" (83 mm) x 0.66" (17 mm)		3.93" (100 mm) x 4.8" (122 mm) x 1" (25 mm) each RX and TX	
<b>Weight</b>			2.9 lb (1.3 kg) with power supplies	
<b>Net weight</b>	3.6 oz (103 g)		0.77 lb (.35 kg) for each TX or RX	
<b>Operating environment</b>	32°F (0° C) - 104°F (40°C); 10% - 90% humidity, non-condensing			
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing			

\*For a full list of supported video formats, see the last page of this document

\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))



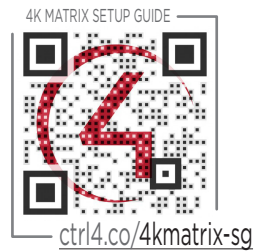
C4-LU1E



C4-LU1



For the full setup guide for the 4K UHD LU Series, visit [ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg)



For product photos and more documentation, visit [ctrl4.co/4kmatrix](http://ctrl4.co/4kmatrix)







# Control4® 4K Ultra HD LU Series HDMI Matrix System



Control4® 4K Ultra HD LU Series HDMI Matrix System  
C4-LU1082D, C4-LU862D, C4-LU642D  
C4-LU1082, C4-LU862, C4-LU642, C4-LU642L-KIT  
C4-LU1E, C4-LU1, LTPTP-F, LTPTP-L

The Control4® 4K Ultra HD HDMI Matrix System comprises a Control4 4K Ultra HD AV Matrix Switch (C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642, C4-LU642L), Control4 4K HDBaseT Receivers (C4-LU1E, C4-LU1) and Control4 4K Point-to-Point Kits (LTPTP-F, LTPTP-L). The Control4 4K Ultra HD HDMI Matrix System is designed to accept HDMI AV sources at its inputs and route them to remotely located HDBaseT receivers along with control and Ethernet (C4-LU1E only) signals.

The LU1082D/862D/642D models introduce audio downmixing to the LU series to offer you even greater flexibility in where and how you enjoy your media. The D models can downmix and distribute surround sound audio from any of the HDMI inputs to the stereo audio outputs, allowing you to enjoy your 4K sources anywhere in your house.



## Control4® 4K Ultra HD LU Series - HDMI Matrix Switches

Audio/Video							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats.						
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported. HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)						
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM						
<b>HDCP</b>	All video inputs and outputs support HDCP 1.4 and HDCP 2.2						
<b>HDMI inputs</b>	10	8	6	10	8	6	6
<b>HDMI outputs</b>	2	2	2	2	2	2	2
	HDMI outputs can be switched independently from HDBT outputs or locked to mirror specified HDBT outputs.						
<b>HDBaseT outputs</b>	8	6	4	8	6	4	4
	One CAT5e/6/7 cable carries video, audio, Ethernet, IR, RS232 and power for the HDBaseT receiver. Maximum bandwidth: 10.2 Gbps						
<b>Audio inputs</b>	8	8	8	8	8	8	-
	Audio inputs support 44.1 kHz, 48 kHz, 96 kHz audio in both 16 bit and 24 bit. S/PDIF (coax/RCA) connectors.						
<b>Audio outputs</b>	8	8	8	8	8	8	-
	Analog stereo derived from all audio formats listed above. Programmable audio delay up to approximately 255 ms. Outputs match and follow HDBaseT/HDMI outputs. RCA stereo connectors.						
<b>Audio downmixing</b>	Yes	Yes	Yes	-	-	-	-
	Models supporting audio downmixing can simultaneously output supported surround formats and downmixed stereo audio over HDMI, HDBaseT, and analog audio outputs.						
Automation system integration							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.						
<b>RS232 over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RS232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.						
<b>Audio breakout</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audio is de-embedded from HDMI source and made available for distribution throughout the system through audio outputs.						
<b>Ethernet</b>	1000Base-T Ethernet Port with internal Ethernet switch supporting 100Base-TX full-duplex Ethernet routing to all remote HDBaseT ports. RJ45 shielded connector.						
<b>Ethernet over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	-
<b>Max HDBaseT range**</b>	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	230' (70m)
<b>Status LEDs</b>	Front panel LEDs: Power, Link, Media, Alert						
<b>Configuration</b>	Using integrated web-based management console and Composer Pro						
<b>Control4 integration</b>	Control4-certified driver supports control over IP or RS-232, and device discovery through SDDP or ID push button.						
Environmental							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Power requirements</b>	Internal power supply 110 - 240VAC, 50/60 Hz Maximum consumption: 192W (allow +20% when sizing)						
<b>Cooling requirements</b>	465 BTU/hr max						
<b>Operating environment</b>	32°F (0°C) - 104°F (40°C); 10% - 90% humidity, non-condensing						
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing						
<b>Dimensions (W x D x H)</b>	17.7" (450 mm) x 10.4" (265 mm) x 3.5" (88 mm), 3.8" (97 mm) with feet. 2 rack units.						
<b>Net weight</b>	12.3 lb (5.6 kg)						
<b>Regulatory</b>	CE, FCC, RoHS, C-Tick						
Accessories							
<b>Included accessories</b>	Power cord, rack mount ears and screws, switch feet and screws, self-adhesive hook-and-loop mounting strips for mounting HDBaseT receivers.						
<b>HDBaseT receivers</b>	C4-LU1E for use with C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642 C4-LU1 supplied as part of C4-LU642L-KIT						
<b>HDBaseT extender kits</b>	HDBaseT Full Extender Kit (C4-LTPPT-F) HDBaseT Lite Extender Kit (C4-LTPPT-L)						

\*For a full list of supported video formats, see the last page of this document

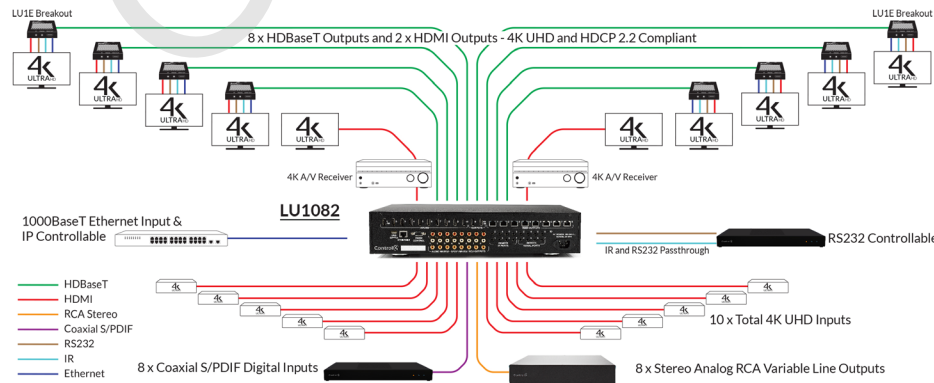
\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))

# Control4® 4K Ultra HD LU Series - HDBaseT Receivers

Audio/Video				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats			
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)			
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM			
<b>HDCP</b>	HDCP 1.4 and HDCP 2.2			
<b>HDMI inputs</b>	-	-	TX: 1	TX: 1
<b>HDMI outputs</b>	1	1	RX: 1	RX: 1
<b>HDBaseT</b>	1	1	1 per TX and RX	1 per TX and RX
One Cat5e/6/7 cable carries video, audio, Ethernet, IR, RS-232 and power. Maximum bandwidth: 10.2 Gbps				
Automation system integration				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes
IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.				
<b>RS-232 over HDBaseT</b>	Yes	Yes	Yes	Yes
RS-232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.				
<b>Ethernet over HDBaseT</b>	100Base-TX full-duplex Ethernet supplied from LU switch. RJ45 shielded connector.		-	-
<b>Max HDBaseT range**</b>	330 ft (100 m)	230 ft (70 m)	330 ft (100 m)	230 ft (70 m)
Environmental				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Power requirements</b>	Supplied by C4-LU switch		15W @ 48V DC	
<b>Dimensions</b>	3" (76 mm) x 3.25" (83 mm) x 0.66" (17 mm)		3.93" (100 mm) x 4.8" (122 mm) x 1" (25 mm) each RX and TX	
<b>Weight</b>			2.9 lb (1.3 kg) with power supplies	
<b>Net weight</b>	3.6 oz (103 g)		0.77 lb (.35 kg) for each TX or RX	
<b>Operating environment</b>	32°F (0° C) - 104°F (40°C); 10% - 90% humidity, non-condensing			
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing			

\*For a full list of supported video formats, see the last page of this document

\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))



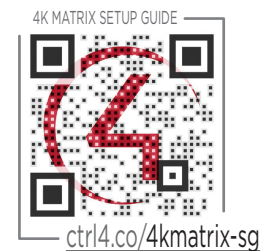
C4-LU1E



C4-LU1



For the full setup guide for the 4K UHD LU Series, visit [ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg)



For product photos and more documentation, visit [ctrl4.co/4kmatrix](http://ctrl4.co/4kmatrix)





# Control4® 4K Ultra HD LU Series HDMI Matrix System



Control4® 4K Ultra HD LU Series HDMI Matrix System  
C4-LU1082D, C4-LU862D, C4-LU642D  
C4-LU1082, C4-LU862, C4-LU642, C4-LU642L-KIT  
C4-LU1E, C4-LU1, LTPTP-F, LTPTP-L

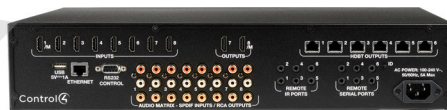
The Control4® 4K Ultra HD HDMI Matrix System comprises a Control4 4K Ultra HD AV Matrix Switch (C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642, C4-LU642L), Control4 4K HDBaseT Receivers (C4-LU1E, C4-LU1) and Control4 4K Point-to-Point Kits (LTPTP-F, LTPTP-L). The Control4 4K Ultra HD HDMI Matrix System is designed to accept HDMI AV sources at its inputs and route them to remotely located HDBaseT receivers along with control and Ethernet (C4-LU1E only) signals.

The LU1082D/862D/642D models introduce audio downmixing to the LU series to offer you even greater flexibility in where and how you enjoy your media. The D models can downmix and distribute surround sound audio from any of the HDMI inputs to the stereo audio outputs, allowing you to enjoy your 4K sources anywhere in your house.

C4-LU1082D



C4-LU862D



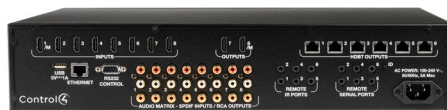
C4-LU642D



C4-LU1082



C4-LU862



C4-LU642



LTPTP-F/LTPTP-L



C4-LU1E



C4-LU642L-KIT



## Control4® 4K Ultra HD LU Series - HDMI Matrix Switches

Audio/Video							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats.						
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported. HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)						
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM						
<b>HDCP</b>	All video inputs and outputs support HDCP 1.4 and HDCP 2.2						
<b>HDMI inputs</b>	10	8	6	10	8	6	6
<b>HDMI outputs</b>	2	2	2	2	2	2	2
	HDMI outputs can be switched independently from HDBT outputs or locked to mirror specified HDBT outputs.						
<b>HDBaseT outputs</b>	8	6	4	8	6	4	4
	One CAT5e/6/7 cable carries video, audio, Ethernet, IR, RS232 and power for the HDBaseT receiver. Maximum bandwidth: 10.2 Gbps						
<b>Audio inputs</b>	8	8	8	8	8	8	-
	Audio inputs support 44.1 kHz, 48 kHz, 96 kHz audio in both 16 bit and 24 bit. S/PDIF (coax/RCA) connectors.						
<b>Audio outputs</b>	8	8	8	8	8	8	-
	Analog stereo derived from all audio formats listed above. Programmable audio delay up to approximately 255 ms. Outputs match and follow HDBaseT/HDMI outputs. RCA stereo connectors.						
<b>Audio downmixing</b>	Yes	Yes	Yes	-	-	-	-
	Models supporting audio downmixing can simultaneously output supported surround formats and downmixed stereo audio over HDMI, HDBaseT, and analog audio outputs.						
Automation system integration							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.						
<b>RS232 over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	RS232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.						
<b>Audio breakout</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Audio is de-embedded from HDMI source and made available for distribution throughout the system through audio outputs.						
<b>Ethernet</b>	1000Base-T Ethernet Port with internal Ethernet switch supporting 100Base-TX full-duplex Ethernet routing to all remote HDBaseT ports. RJ45 shielded connector.						
<b>Ethernet over HDBaseT</b>	Yes	Yes	Yes	Yes	Yes	Yes	-
<b>Max HDBaseT range**</b>	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	230' (70m)
<b>Status LEDs</b>	Front panel LEDs: Power, Link, Media, Alert						
<b>Configuration</b>	Using integrated web-based management console and Composer Pro						
<b>Control4 integration</b>	Control4-certified driver supports control over IP or RS-232, and device discovery through SDDP or ID push button.						
Environmental							
	C4-LU1082D	C4-LU862D	C4-LU642D	C4-LU1082	C4-LU862	C4-LU642	C4-LU642L
<b>Power requirements</b>	Internal power supply 110 - 240VAC, 50/60 Hz Maximum consumption: 192W (allow +20% when sizing)						
<b>Cooling requirements</b>	465 BTU/hr max						
<b>Operating environment</b>	32°F (0°C) - 104°F (40°C); 10% - 90% humidity, non-condensing						
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing						
<b>Dimensions (W x D x H)</b>	17.7" (450 mm) x 10.4" (265 mm) x 3.5" (88 mm), 3.8" (97 mm) with feet. 2 rack units.						
<b>Net weight</b>	12.3 lb (5.6 kg)						
<b>Regulatory</b>	CE, FCC, RoHS, C-Tick						
Accessories							
<b>Included accessories</b>	Power cord, rack mount ears and screws, switch feet and screws, self-adhesive hook-and-loop mounting strips for mounting HDBaseT receivers.						
<b>HDBaseT receivers</b>	C4-LU1E for use with C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642 C4-LU1 supplied as part of C4-LU642L-KIT						
<b>HDBaseT extender kits</b>	HDBaseT Full Extender Kit (C4-LTPTP-F) HDBaseT Lite Extender Kit (C4-LTPTP-L)						

\*For a full list of supported video formats, see the last page of this document

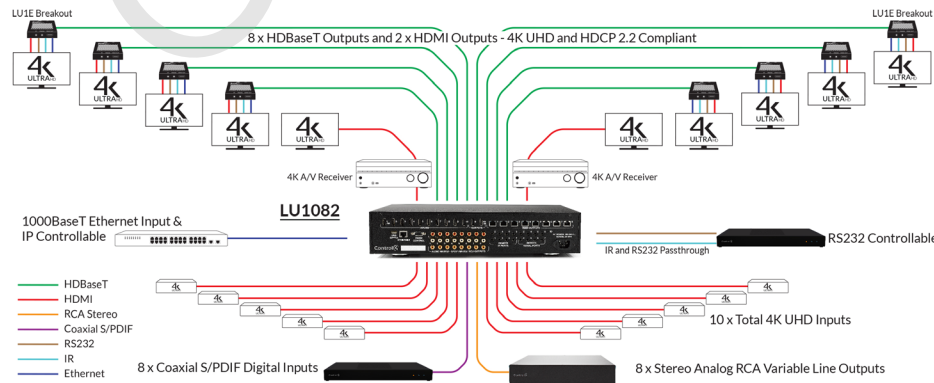
\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))

# Control4® 4K Ultra HD LU Series - HDBaseT Receivers

Audio/Video				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Video formats*</b>	4K formats up to 4K60 4:2:0, 1080p 50/60, 1080i 50/60, 720p 50/60, 576p, 480p, mandatory 3D formats as minimum, DVI formats			
<b>Color/HDR</b>	Color space: RGB, YUV. HDR Static Metadata supported HDR @ FHD: 1080p60 4:4:4 10, 12, 16bit per pixel (30, 36, 48bit color) HDR @ UHD: 3840x2160p30 4:2:0 10bit (30bit color)			
<b>Audio formats</b>	All common surround sound formats including Dolby Atmos, Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby Pro Logic II, Dolby Pro Logic IIx, Dolby Pro Logic IIz, Dolby TrueHD, Dolby Pro Logic, Dolby AC-3, DTS, DTS Neo:6, DTS-ES, DTS-HD Master Audio, DTS-HD, DTS:X, THX Surround EX, LPCM, Multichannel PCM			
<b>HDCP</b>	HDCP 1.4 and HDCP 2.2			
<b>HDMI inputs</b>	-	-	TX: 1	TX: 1
<b>HDMI outputs</b>	1	1	RX: 1	RX: 1
<b>HDBaseT</b>	1	1	1 per TX and RX	1 per TX and RX
One Cat5e/6/7 cable carries video, audio, Ethernet, IR, RS-232 and power. Maximum bandwidth: 10.2 Gbps				
Automation system integration				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>IR over HDBaseT</b>	Yes	Yes	Yes	Yes
IR passthrough between switch and HDBaseT receivers. Supports direct IR, IR TX bug, or IR RX bug. Modulated 38 kHz and envelope. 5V compatible. 3.5 mm stereo (TRS) barrel connectors.				
<b>RS-232 over HDBaseT</b>	Yes	Yes	Yes	Yes
RS-232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.				
<b>Ethernet over HDBaseT</b>	100Base-TX full-duplex Ethernet supplied from LU switch. RJ45 shielded connector.		-	-
<b>Max HDBaseT range**</b>	330 ft (100 m)	230 ft (70 m)	330 ft (100 m)	230 ft (70 m)
Environmental				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
<b>Power requirements</b>	Supplied by C4-LU switch		15W @ 48V DC	
<b>Dimensions</b>	3" (76 mm) x 3.25" (83 mm) x 0.66" (17 mm)		3.93" (100 mm) x 4.8" (122 mm) x 1" (25 mm) each RX and TX	
<b>Weight</b>			2.9 lb (1.3 kg) with power supplies	
<b>Net weight</b>	3.6 oz (103 g)		0.77 lb (.35 kg) for each TX or RX	
<b>Operating environment</b>	32°F (0° C) - 104°F (40°C); 10% - 90% humidity, non-condensing			
<b>Storage environment</b>	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing			

\*For a full list of supported video formats, see the last page of this document

\*\*HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide ([ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg))



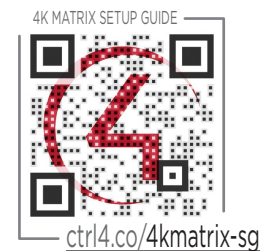
C4-LU1E



C4-LU1



For the full setup guide for the 4K UHD LU Series, visit [ctrl4.co/4kmatrix-sg](http://ctrl4.co/4kmatrix-sg)



For product photos and more documentation, visit [ctrl4.co/4kmatrix](http://ctrl4.co/4kmatrix)





