

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

Das Control4® 4K Ultra HD HDMI Matrix System besteht aus einem Control4 4K Ultra HD AV Matrix Switch (C4-LU1082D, C4-LU862D, C4-LU642D, C4-LU1082, C4-LU862, C4-LU642, C4-LU642L-KIT), Control4 4K HDBaseT Empfänger (C4-LU1E, C4-LU1) und Control4 4K Punkt-zu-Punkt Kits (LTPTP-F, LTPTP-L). Das Control4 4K Ultra HD HDMI Matrix System wurde entwickelt, um HDMI AV-Quellen an den Eingängen zu empfangen und sie zusammen mit Steuerungs- und Ethernet-Signalen (nur C4-LU1E) an entfernte HDBaseT-Empfänger weiterzuleiten.

Die Modelle LU1082D/862D/642D führen das Audio-Downmixing in die LU-Serie ein, um Ihnen noch mehr Flexibilität zu bieten, wo und wie Sie Ihre Medien genießen. Die D-Modelle können Surround-Sound-Audio von jedem der HDMI-Eingänge auf die Stereo-Audioausgänge heruntermischen und verteilen, so dass Sie Ihre 4K-Quellen überall in Ihrem Haus genießen können.

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
Video formats*	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.						
Color/HDR	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)						
Audio formats	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						
HDCP	All video inputs and outputs support HDCP 1.4 and HDCP 2.2						
HDMI inputs	10	8	6	10	8	6	6
HDMI outputs	2	2	2	2	2	2	2
	HDMI outputs can be switched independently from HDBT outputs or locked to mirror specified HDBT outputs.						
HDBaseT outputs	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						
Audio inputs	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.						
Audio outputs	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.						
Audio downmixing	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
IR over HDBaseT	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.						
RS232 over HDBaseT	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.						
Audio breakout	Yes	Yes	Yes	Yes	Yes	Yes	-
	Audio is de-embedded from HDMI source and made available for distribution throughout the system through audio outputs.						
Ethernet	1000Base-T Ethernet Port with internal Ethernet switch supporting 100Base-TX full-duplex Ethernet routing to all remote HDBaseT ports. RJ45 shielded connector.						
Ethernet over HDBaseT	Yes	Yes	Yes	Yes	Yes	Yes	-
Max HDBaseT range**	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	330' (100m)	230' (70m)
Status LEDs	Front panel LEDs: Power, Link, Media, Alert						
Configuration	Using integrated web-based management console and Composer Pro						
Control4 integration	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
Power requirements	Internal power supply 110 - 240VAC, 50/60 Hz Maximum consumption: 192W (allow +20% when sizing)						
Cooling requirements	465 BTU/hr max						
Operating environment	32°F (0°C) - 104°F (40°C); 10% - 90% humidity, non-condensing						
Storage environment	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing						
Dimensions (W x D x H)	17.7" (450 mm) x 10.4" (265 mm) x 3.5" (88 mm), 3.8" (97 mm) with feet. 2 rack units.						
Net weight	12.3 lb (5.6 kg)						
Regulatory	CE, FCC, RoHS, C-Tick						
Accessories							
Included accessories	Power cord, rack mount ears and screws, switch feet and screws, self-adhesive hook-and-loop mounting strips for mounting HDBaseT receivers.						
HDBaseT receivers	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						
HDBaseT extender kits	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)

Control4® 4K Ultra HD LU Series - HDBaseT Receivers

Audio/Video				
	C4-LU1E	C4-LU1	LTPTP-F	LTPTP-L
Video formats*	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			
Color/HDR	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)			
Audio formats	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			
HDCP	HDCP 1.4 and HDCP 2.2			
HDMI inputs	-	-	TX: 1	TX: 1
HDMI outputs	1	1	RX: 1	RX: 1
HDBaseT	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
IR over HDBaseT	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.				
RS-232 over HDBaseT	Yes	Yes	Yes	Yes
RS-232 passthrough between switch and HDBaseT receivers. Supports up to 115200 baud. 3.5 mm stereo barrel connectors.				
Ethernet over HDBaseT	100Base-TX full-duplex Ethernet supplied from LU switch. RJ45 shielded connector.		-	-
Max HDBaseT range**	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
Power requirements	Supplied by C4-LU switch		15W @ 48V DC	
Dimensions	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	
Weight			2.9 lb (1.3 kg) with power supplies	
Net weight	3.6 oz (103 g)		0.77 lb (.35 kg) for each TX or RX	
Operating environment	32°F (0° C) - 104°F (40°C); 10% - 90% humidity, non-condensing			
Storage environment	-4°F (-20°C) - 158°F (70°C); 10% - 90% humidity, non-condensing			

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