

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 |
| 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

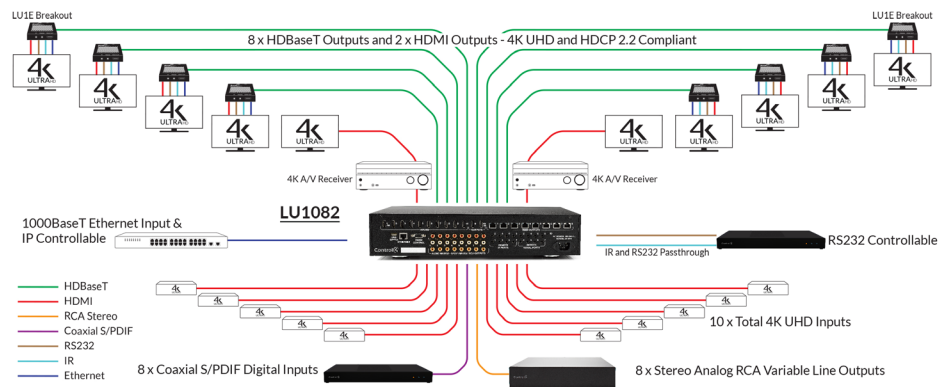
**HDBaseT range depends on video bandwidth, cable specs, termination quality, etc. Detailed information can be found in the Setup Guide (ctrl4.co/4kmatrix-sg)

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 | | | |

*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)



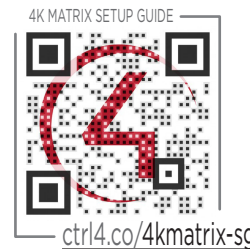
C4-LU1E



C4-LU1



For the full setup guide for the 4K UHD LU Series, visit ctrl4.co/4kmatrix-sg



For product photos and more documentation, visit ctrl4.co/4kmatrix



