

UCX Matrix Switcher Receiver

UCX Matrix Switcher receiver is part of a transmitter-receiver configuration that provides the same functionality as the UCX product range in terms of signal management and connectivity.

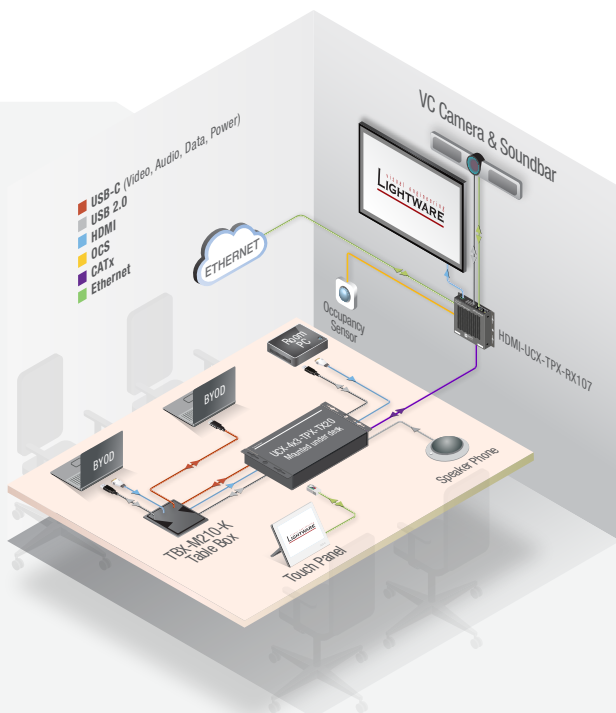


Details

Lightware's UCX Matrix Switcher receiver is part of a transmitter-receiver configuration that provides the same functionality as the UCX product range in terms of signal management and connectivity. (Such functionality includes video resolution up to 4K@60Hz 4:4:4 through the USB-C and HDMI inputs, easy host USB switching, and advanced security features). At the same time, the bundle overcomes the limitations imposed by the USB and HDMI cables and allows for the extension of video, audio, and control signals in one direction and the USB 2.0 and control data and in the other up to a transmission distance of 100m.

Moreover, the receiver can receive remote power from the connected transmitter up to the power limit of 25.4W of the PoE+ specification.

Application diagram



Features

- **Single CAT connectivity between TX and RX devices, up to 100m, with Power delivery from TX to RX, Video, USB2.0, Ethernet, OCS and Serial**
- **USB-C input connectivity on the TX device for 4K Video, Audio, Data, and Power (Video, Audio, Data and Power over a single USB-C connection)**
- **USB-C charging up to 100W (120W total) on the TX**
- **Multiple USB 2.0 connectivity for any type of USB device (Camera, speakerphone, touch monitor, USB-HID devices etc.) Both on the TX and the RX**
- **Independent USB Host switching layer for multiple USB hosts, up to 8 devices (4x at the TX side, 4x at the RX side)**
- **Room device control via Ethernet (TCP/IP) or Serial (2x at TX device, 1x at RX device)**
- Multiple Ethernet network configurations fitting various corporate network topologies and IT security standards (e.g. 802.1x compliance)
- SSH, SSL, and HTTPS for IT security
- Occupancy sensor (OCS) connection at the RX device (with 24V power supply), GPIO control ports at TX device
- Welcome Screen for custom corporate logo and on-screen display warning messages
- CEC at the HDMI outputs
- Audio de-embedding
- Supports uncompressed HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps, 600 MHz pixel clock)
- Supports Lightware Advanced Room Automation (LARA)

Specifications

General	Compliance	CE; UKCA	
	Electrical safety	EN 62368-1:2014	
	EMC (emission)	EN 55032:2015	
	EMC (immunity)	EN 55035:2017	
	RoHS	EN 63000:2018	
	Warranty	3 years	
	Operating temperature	0° to +50°C (+32° to +122°F)	
	Operating humidity	10% to 90%, non-condensing	
	Cooling	passive	
Power	Power supply option	Power adaptor 12V /PoE PD	
	Supported power source	100-240 V AC, 50/60 Hz	
	Power consumption	24W (TBC)	
Power adaptor	Supplied power	12V DC, 2A	
	AC power plug	Interchangable (EU, UK, JP/US, AUS/NZ)	
	DC power plug	Locking DC connector (2.1/5.5 mm pin)	
Enclosure	Rack mountable	yes, with mounting accessories	
	Enclosure material	1 mm steel	
	Dimensions (mm)	151.8 x 104.9 x 26	
	Weight	(TBD)	
Video ports	HDMI output	Connector type	19-pole HDMI Type A receptacle
		AV standard	DVI 1.0, HDMI 20
		HDCP compliance	HDCP 2.3
		Color space	RGB, YCbCr
		Supported resolutions at 8 bits/color	up to 4096x2160@60Hz (4:4:4)
		Audio formats	8-channel PCM, Dolby TrueHD, DTS-HD Master Audio 7.1
	TPX input	Connector type	RJ45 connector
		Power over Ethernet	POE PD (IEEE802.3af)
		Data rate	10GBase-T
		Compliance	AVXT
		HDCP compliance	HDCP 2.3
		Transferred signals	Video, Audio, USB 2.0, RS-232, OCS, Ethernet
		Color space	RGB, YCbCr
		Supported resolutions at 8 bits/color	up to 4096x2160@60Hz (4:4:4)
Audio formats	8-channel PCM, Dolby TrueHD, DTS-HD Master Audio 7.1		
Audio Ports	Analog audio output	Connector type	5-pole Phoenix connector
		Audio formats	2-channel PCM
		Sampling frequency	48 kHz
		Signal transmission	Balanced signals
Control ports	Ethernet port	Connector type	RJ45 female connector
		Number of connectors per unit	2
		Ethernet data rate	1GBase-T, full duplex with autodetect
	RS-232 serial port	Connector type	3-pole Phoenix connector
	Default settings	9600 BAUD, 8N1	