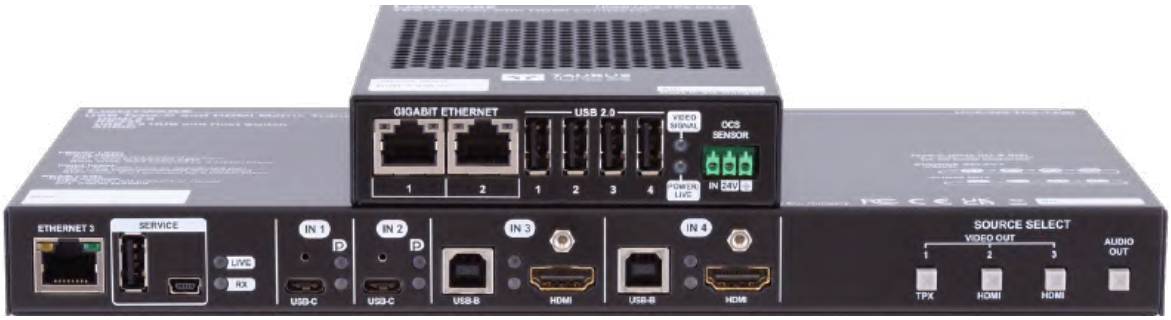
TPX-4x3-TX20-RX107 Bundle

SKU: 91350015

Lightware Taurus TPX transmitter and receiver bundle: UCX-4x3-TPX-TX20 and HDMI-UCX-TPX-RX107



Details

Lightware's universal transmitter-receiver configuration 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 USB host 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 data in the other up to a transmission distance of 100m.

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

TX also available with NIST FIPS 140-2 certified cryptography (SKU: 91360034)

Specifications (UCX-4x3-TPX-TX20)

Genaral	Compliance		CE; UKCA
	Electrical safety		IEC 61000-3-3:2013+AMD1:2017
	EMC (emission)		IEC/EN 55032:2015
	EMC (immunity)		IEC/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		Cooling fan
Power	Power supply option		External 220W Power Supply (if remote powering UCX-TPX-RX)
	Supported power source		100-240 V AC; 50/60 Hz
	AC power plug		Interchangeable (EU, UK, JP/US, AUS/NZ)
	Battery cell type		BR1632A
Enclosure	Enclosure material		1 mm steel
	Dimensions in mm		271 W x 140,3 D x 26 H
	Dimensions in inch		10.7 W x 5.57 D x 1.01 H
	Weight (UCX-4x2-HC30)		900 g (TO BE CONFIRMED)
Video Inputs	USB-C input	Connector type	24-pole USB type C receptacle
		A/V standard	DP 1.2a
		HDCP compliance	HDCP 1.4, HDCP 2.2
		Color space	RGB, YCbCr
		Video delay	O frame
		Max. video resolution	4096x2160@60Hz RGB 4:4:4 (up to 600MHz pixel clock);1920x1080@120 Hz, 36 bit
		Audio formats	all formats in line with HDMI 2.0 standard
		3D support	yes

Specifications (UCX-4x3-TPX-TX20)

Video Inputs	HDMI input	Connector type	19-pole HDMI Type A receptacle (with screw locking option)
		A/V standard	DVI 1.0, HDMI 1.4, HDMI 2.0
		Maximum data rate	18Gbps
		Maximum pixel clock	597MHz
		HDCP compliance	HDCP 1.4, HDCP 2.2
		Color space	RGB, YCbCr
		Video delay	O frame
		Max. video resolution	4096x2160@60Hz RGB 4:4:4 (up to 600MHz pixel clock);1920x1080@120 Hz, 36 bit
		Max. input HDMI cable length (with premium certified cable) at 3840x2160@60Hz 4:4:4	5m
		Re-clocking	Pixel Accurate Re-clocking
		3D support	yes
		Audio mode	Simultaneous pass-through and de-embedding to the Audio layer
		Supported audio formats for pass-through	All HDMI2.0 audio formats
		Supported audio formats for de-embedding	Uncompressed
		Compressed	Dolby Digital, DTS; Compressed HBR; Dolby TrueHD, DTS-HD
Video Outputs	HDMI output	Connector type	19-pole HDMI Type A receptacle
		A/V standard	DVI 1.0, HDMI 1.4, HDMI 2.0
		HDCP compliance	HDCP 1.4, HDCP 2.2
		Color space	RGB, YCbCr
		Supported resolutions	Up to UHD/4k@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-ch PCM
		Sampling frequency	48 kHz
		Volume	-95.62 dB-0 dB
		Balance	-100 +100 (0 = center)
	GPIO port	Connector type	8-pole Phoenix
		Function (pin 1-6)	Configurable (input/output)
		Function (pin 7)	5V output
		Function (pin 8)	Ground

Specifications (UCX-4x3-TPX-TX20)

USB Ports	Host port (UFP)	Connector type	C-type receptacle
		USB compliance	USB 2.0
		Connector type	B-type receptacle
		USB compliance	USB 2.0
	Device port (DFP)	Connector type	A-type receptacle
		USB compliance	USB 2.0
Control ports	Ethernet port	Connector type	RJ45 female connector
		Ethernet data rate	10/100/1000 Base-T, full duplex with auto detect
		Power over Ethernet (PoE)	Not supported
	USB port	Connector type	A-type receptacle
		USB compliance	USB 2.0
		Connector type	mini B-type
		USB compliance	USB 2.0
	RS-232 port	Connector type	3-pole Phoenix connector
		Baud rates	between 9600 and 115200 baud
		Data bits	8
		Parity	None Odd/Even
		Stop bits	1/2
		Output voltage: Low level	3-15V
		Output voltage: High level	-15V - 3V

Specifications (HDMI-UCX-TPX-RX107)

Genaral	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

Specifications (HDMI-UCX-TPX-RX107)

Video Ports	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 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