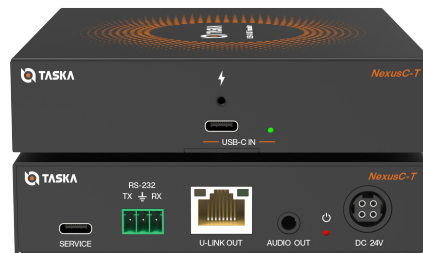


USB-C 40M Transmitter

NexusC-T



DESCRIPTION

Taska NexusC-T is a USB-C 40M Transmitter designed as a high-performance signal extension solution for modern commercial A/V applications and collaborative workspaces. Operating over a single CAT6a cable, it enables the long-distance extension of full USB-C signals—including ultra-high-definition video and high-speed USB 3.2 data—up to 40m (130ft).

The transmitter features a comprehensive full-featured USB-C input interface that fully complies with DisplayPort Alt Mode (v1.4a) standards and USB Power Delivery 3.0, delivering up to 100W of charging power to connected host laptops. Complete with dedicated audio de-embedding, bidirectional 24V PoC (Power over Cable), and RS-232 serial pass-through, the NexusC-T provides a streamlined, highly efficient single-cable architecture for system integration.

PRODUCT FEATURES

- | 5K full USB-C and USB 3.2 extender with USB-C input and output
- | Extended distance is up to 40m/130ft for 4K signal, 35m/115ft for 5K signal via a single CAT6a cable
- | Compliant with VESA DisplayPort 1.4a
- | Compliant with USB-C Power Delivery 3.0
- | HDCP 2.3 compliant, creating a secure connection between the source and display
- | Supports USB 3.2 Gen 1 with data transfer rate up to 2.5 Gbps.
- | Features one full USB-C input, supporting DP Alt mode standards (v1.4a) A/V, USB 3.2 Gen 1 data and up to 100W charging
Note: USB-C charging is supported only when TX gets power supply.
- | Supports audio de-embedding
- | RS-232 pass-through
- | HDR, HDR10+, Dolby Vision LLM and HLG pass-through
- | Bi-directional 24V PoC (power over cable), when TX or RX gets power, the other end does not need an external power supply

SPECIFICATION

	Technical	
HDMI Compliance	DisplayPort 1.4a	
HDCP Compliance	HDCP 2.3	
USB Compliance	USB 3.2 Gen1	
USB Transmission Rate	Up to 2.5Gbps	
Video Bandwidth	18Gbps	
Video Resolution	5120x2160p60Hz, 5120x2160p50Hz, 5120x1440p60Hz, 5120x1440p50Hz,	
	4096x2160p60Hz, 4096x2160p59.94Hz, 4096x2160p50Hz, 4096x2160p30Hz,	
	4096x2160p29.97Hz, 4096x2160p25Hz, 4096x2160p24Hz, 4096x2160p23.98Hz,	
	3840x2160p60Hz, 3840x2160p59.94Hz, 3840x2160p50Hz, 3840x2160p30Hz,	
	3840x2160p29.97Hz, 3840x2160p25Hz, 3840x2160p24Hz, 3840x2160p23.98Hz,	
	1920x1080p60Hz, 1920x1080p59.94Hz, 1920x1080p50Hz, 1920x1080p30Hz,	
	1920x1080p29.97Hz, 1920x1080p25Hz, 1920x1080p24Hz, 1920x1080p23.98Hz,	
	1280x720p60Hz, 1280x720p59.94Hz, 1280x720p50Hz,	
	720x576p50Hz, 720x576i50Hz, 720x480p59.94Hz, 720x480i59.94Hz,	
	1600x1200p60Hz, 1440x900p60Hz, 1440x1050p60Hz, 1360x768p60Hz,	
	1280x1024p60Hz, 1024x768p60Hz, 800x600p60Hz, 640x480p60Hz	
Color Space	RGB, YCbCr4:4:4, YCbCr4:2:2, YCbCr4:2:0	
Color Depth	8/10/12-bit	
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG	
Audio Formats	USB-C IN	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS,
		DTS-EX, DTS-96/24, DTS High Res, DTSHD Master Audio, DSD
	Analog Audio De-embedding	LPCM 2CH (sample rate 32~192kHz)
Analog Output Audio Parameters	Output Level (Maximum)	Max 2.2dBu (1Vrms) unbalanced audio
	Frequency Response	20Hz to 20kHz (-/+0.5dB)
	Audio S/N Ratio	>90dB@0dBu, 1kHz A-weighted
	Audio THD+N	< 0.006%@+4dBu, 1KHz
	Audio Output Delay	<2ms
Transmission Distance	CAT6a (F/FTP) Cable: 40m/130ft for 4K; 35m/115ft for 5K; USB 3.2 Passive Cable: 1.5m/4.9ft; USB2.0 Passive Cable: 2m/6.6ft	
	Connection	
Input	1× USB-C IN [USB-C, 24-pin female]	
Output	1× U-Link OUT [RJ45 connector, 24V PoC]; 1× AUDIO OUT [3.5mm audio jack]	
Control	1× RS-232 [3-pin 3.5mm phoenix connector]; 1× SERVICE [USB-C, FW update port]	
	Mechanical	
Color	Black	
Dimensions	118mm [W] × 111mm [D] × 25.5mm [H]	
Weight	359g	
	Electrical	
Power Consumption	4.36W (Max, without USB-C charging); 106W (Max, with 100W USB-C charging)	
Power Supply	DIN 4-pin: DC 24V/7.5A	
	Environment	
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F	
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F	
Operating Humidity	20~80% RH (Non-condensing)	
Storage Humidity	10~90% RH (Non-condensing)	