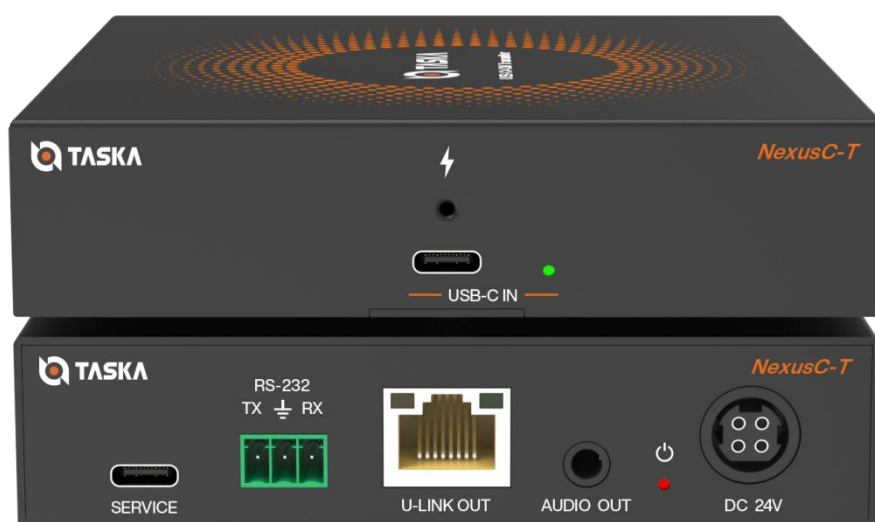




USB-C 40M Transmitter NexusC-T



User Manual

Thank you for purchasing this product.

Please read this manual carefully before use to ensure optimal performance and safety.

Please retain this manual for future reference.

Copyright

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Safety and Compliance

FCC Statement (Class A)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

European Community Compliance Statement (Class A)

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2014/30/EU.

Disposal of This Product

This product must not be disposed of with household waste. Please recycle it responsibly at a designated collection point for electronic waste in your country.

Trademarks

All trademarks in this document are the properties of their respective owners.

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What's in the box?

NexusC-T	x 1
3pin-3.5mm Phoenix Connector (male)	x 1
Mounting Ear	x 2
KM3x6 Machine Screw (For Mounting ears)	x 4
Thank you Card	x 1

Notice

The contents of this manual are subject to change without prior notice as part of continuous product improvement. All updates will be incorporated into subsequent versions of this documentation, ensuring users have access to the most current information regarding product features and procedures.

Overview

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) for 4K signals and up to 115ft/35m for premium 5K@60Hz 4:4:4 workflows.

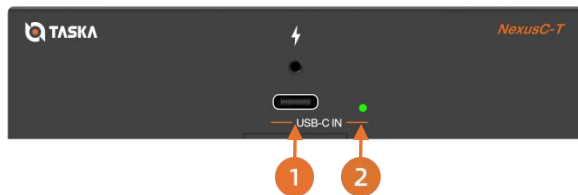
The transmitter features a comprehensive full-featured USB-C input interface that fully complies with DisplayPort Alt Mode (v1.4a) standards and USB Power Delivery 3.0, delivering up to 100W of charging power to connected host laptops. Complete with dedicated audio de-embedding, bidirectional 24V PoC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

Features

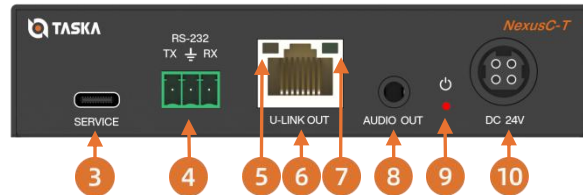
- 5K full USB-C and USB 3.2 extender with USB-C input and output.
- Extended distance is up to 40m/130ft for 4K signal, 35m/115ft for 5K signal via a single CAT6a cable.
- Compliant with VESA DisplayPort 1.4a.
- Compliant with USB-C Power Delivery 3.0.
- HDCP 2.3 compliant, to create a secure connection between the source and the 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.
- 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.

Panel Description

Right Panel



Left Panel



No.	Name	Function Description
1	USB-C IN	USB-C input. Full-featured USB-C port supporting DP-Alt Mode video input, USB 3.2 Gen 1 data transfer, and up to 100W Power Delivery (PD) host charging.
2	USB-C IN LED	Green Lights on when the USB-C IN port is connected to an active source device without charging. Red Lights on when the USB-C IN port is actively charging a connected host device.
3	SERVICE	USB 2.0 Type-C port. Supports API command control and firmware update.
4	RS-232	RS-232 control port. Connect to a PC or control system for API command control of this product or other devices with RS-232 ports.
5	LINK LED	Connection indicator. ▪ Light On: TX and RX are connected and linked. ▪ Light Blinking: TX and RX link is off due to low power mode. ▪ Light Off: TX and RX are not connected.
6	U-LINK OUT	Connects to the U-LINK IN port on RX (NexusH-R/NexusC-R) with CAT6a cable, used for AV and USB signal transmission and 24V PoC power supply.
7	VIDEO LED	Video signal indicator. ▪ Light On: There is video signal transmission with HDCP encryption. ▪ Light Blinking: There is video signal transmission without HDCP encryption. ▪ Light Off: There is no video signal transmission.
8	AUDIO OUT	HDMI audio de-embedding output port, connected to an audio device such as a speaker.
9	POWER LED	Red lights on when the device is powered on.
10	DC 24V	DC 24V / 7.5A power input port.

Protocol

You can configure and monitor the **NexusC-T** using simple API commands via two methods:

USB-C: Use a USB-C to USB-C cable to connect your PC directly to the **NexusC-T**'s service port. Then, use a serial port control software (like Tera Term or PuTTY) to access the device's command interface via the virtual serial port.

For the latest protocol specifications, please download the technical documentation from: <https://www.taska-tech.com>

Technical Specifications

Technical		
DP 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	
Input Video Resolutions	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, 3440x1440p60Hz, 2560x1080p60Hz, 1920x1080p60Hz, 1920x1080p59.94Hz, 1920x1080p50Hz, 1920x1080p30Hz, 1920x1080p29.97Hz, 1920x1080p25Hz, 1920x1080p24Hz, 1920x1080p23.98Hz, 1920x1080i60Hz, 1920x1080i59.94Hz, 1920x1080i50Hz, 1280x720p60Hz, 1280x720p59.94Hz, 1280x720p50Hz, 720x480p59.94Hz, 720x576p50Hz, 720x480i59.94Hz, 720x576i50Hz, 1600x1200p60Hz, 1440x1050p60Hz, 1440x900p60Hz, 1366x768p60Hz, 1280x1024p60Hz, 1024x768p60Hz, 800x600p60Hz, 640x480p60Hz	
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0	
Color Depth	8/10/12-bit, 8-bit (4K@60Hz, 4:4:4)	
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, DTS-HD Master Audio, DSD Analog Audio De-embedding: LPCM 2CH (sample rate 32~192kHz)	
Analog Output Audio Parameters	Output Level (Max)	Max 2.2dBu (1Vrms) unbalanced audio
	Frequency Response	20Hz to 20kHz (-/+0.5dB)
	Audio Output Sync Delay	<2ms
	Audio S/N Ratio	>90dB@0dBu, 1kHz A-weighted
	Audio THD+N	< 0.006%@+4dBu, 1KHz
Transmission	CAT6a (F/FTP) Cable: 40m/130ft for 4K; 35m/115ft for 5K USB 3.2 Passive Cable: 1.5m/4.9ft USB 2.0 Passive Cable: 2m/6.6ft	

Technical Specifications

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)

Warranty

Taska Technology Limited warrants that the **NexusC-T** is free from defects in materials and workmanship under normal use for a period of 60 months (5 years) from the original date of purchase. To obtain warranty service, customers must contact their local authorized Taska distributor.

This warranty does not apply under the following conditions:

- A. Damage resulting from negligence, accident, lightning, water, acts of God, or improper handling;
- B. Failure to operate the equipment in accordance with the procedures specified in the official user manual;
- C. Repairs, modifications, or alterations performed by unauthorized service centers;
- D. Removal, alteration, or defacement of the original product serial number;
- E. Damage caused by the use of unauthorized external equipment that affects performance, safety, or reliability;
- F. Products for which replacement parts or components are discontinued and no longer available.

Proof of purchase is required for all warranty claims.