

Universal Matrix Switcher with USB-C Connectivity and Dante USB Audio Bridge

Universal matrix switcher that exploits the USB-C connectivity for a simplified transmission of 4K video, audio, control signals and power providing meeting participants with easy host switching, utilizing data speeds of up to 5 Gbps under the USB 3.1 Gen1 providing video resolution capabilities up to 4K@60Hz at 4:4:4 as well as comprehensive and secure Ethernet features.



Exploit the Possibilities of USB Connectivity

The device utilizes **USB-C connectivity** for a simplified transmission of 4K video, audio, control signals and power, and allows data speeds of up to **5 Gbps** under the **USB 3.1 Gen1** and allowing video resolution capabilities up to **4K@60Hz at 4:4:4**. Users who connect their laptop or other mobile device via USB-C can also enjoy **charging up to 100W (120W total)**, thus eliminating the need to look for a wall plug and to avoid sudden interruption of meetings.

Devices such as laptops that do not come with USB-C connectivity can also be connected quickly and easily, using a combination of **HDMI 2.0** and **USB 3.1 Gen1** connections without compromising on either video resolution or data speeds.

The device is designed to be a centerpiece of any collaboration space, and can be connected to four **USB peripherals** via USB-A type connectors.

The device allows up to two hosts to be connected to the system, and also ensures quick and easy switching between these hosts, making this universal switcher a perfect fit for smaller meeting areas, involving 6-12 people.

Highlighted Features

- **HDMI Stereo embedded Audio can be de-embedded and converted to 2 channel Dante/AES67 streams**
- **Multiple USB 3.1 Gen 1 connectivity for any type of USB devices (Camera, speakerphone, touch monitor, USB-HID devices etc...)**
- **USB-C input connectivity for 4K Video, Audio, Data, and Power (Video, Audio, Data and Power over a single USB-C connection)**
- **CEC at the HDMI outputs**
- **Passive, noiseless cooling**
- **USB-C charging up to 100W (120W total)**
- **Separate USB 3.1 Host switching layer for multiple USB hosts and USB devices**
- **Dedicated secure corporate and room utility Ethernet connectivity**
- **Supports HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps)**

Additional Features and Capabilities

The switcher also thrives when it comes to audio capabilities, offering analog audio de-embedding features as well as support for DANTE/AES67 network connection. The UCX-4x3-HC40-BD universal matrix switcher with Dante USB Audio Bridge feature facilitates two-way Dante functions, enabling its use in meeting rooms equipped with a Dante microphone or other sources, all without the need for an external DSP or Dante/USB dongle.

Automated room control features are also included through GPIO ports, besides of RS-232 and occupancy sensor connectivity.

Security is always a key concern to our customers, therefore our engineers ensured that the UCX-4x3-HC40-BD adheres to the strictest security standards.

Features

- Audio de-embedding to the dedicated RJ45 port connector complying with the Dante/AES67 standards
- USB 3.1 Gen 1, USB 2.0, USB 1.1 compliant
- Occupancy sensor connection (with 24V power supply)
- Welcome screen for custom corporate logo and on-screen display warning messages
- Multiple Ethernet network configurations fitting various corporate network topologies and IT security standards (e.g. 802.1x compliance)
- SSH, SSL, HTTPS for IT security
- Splash screen for custom corporate logo and on-screen display warning messages
- Audio de-embedding
- GPIO control ports
- Device control via Ethernet (TCP/IP)
- Uncompressed video up to 18 Gbps datarate (600 MHz pixel clock)

Secure corporate Ethernet interfaces ensure secure device control and configuration under the SSH, SSL and HTTPS standards, whilst the device can also be securely connected to a closed network of room control devices such as wall panels, or routed to the corporate system for additional control options, all via separate Ethernet layers.

The Taurus UCX offers noiseless operation, no fan in the device.

In today's collaboration environments, it is key that the technology offers flexible and versatile ways for participants to unlock the full potential of a collaboration space and to not be limited by the default options offered by their meeting rooms.

The **Taurus UCX product family** is Lightware's ground-breaking innovation offered for the increasingly growing demand for **cutting-edge solutions in the world of Unified Communications.**

Specifications

Video	Resolution	Up to UHD/4k@60Hz 4:4:4		
	Signal Type	DP Alt Mode, HDMI 2.0, HDMI 1.x, DVI		
	Maximum data rate	18 Gbps		
	Maximum pixel clock	600 MHz		
	Content protections	HDCP 1.x, HDCP 2.2		
	Connector type (IN)	2x HDMI receptacle type A with screw locking option 2x USB-C receptacle with screw locking option		
	Connector type (OUT)	3x HDMI receptacle type A with screw locking option		
	Video processing	Signal parameter measurement		
Audio	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	HDMI Stereo embedded Audio can be de-embedded and converted to 2 channel Dante/AES67 streams	
Control	Ethernet	Control	1x 100Base-T via RJ-45 for Secure Control	
		User Data	2x 100Base-T via RJ-45 for Configurable Ethernet	
	RS232	Connector	2x 3Pol Phoenix	
		Symbol rate	between 9600 and 115200 baud	
		Configuration	Parity: none, odd or even Stopbits: 1 or 2	
	USB	Connectors	2x USB Type C with charging function up to 100W (120W total), Optional Ethernet access	
			1x mini USB Type B (reserved for service)	
			1x USB Type A (reserved for future developments)	
			1x USB Type B for Host PC	
			1x USB Type C for Host PC	
		4x USB Type A for peripherals		
Room Occupancy Sensor	Connector	3Pol Phoenix		
GPIO	Connector	8Pol Phoenix		



Specifications

General	Powering		External 160W power supply
	Dimensions	Width	246 mm
		Height	26 mm
		Depth	150 mm
	Operating conditions	Ambient temperature	0-50oC
		Relative humidity	0-90% (non-condensing)
	Transportation conditions	Ambient temperature	-20-70oC
		Relative humidity	0-95% (non-condensing)
	Compliance		EN 55032:2015
			IEC 61000-3-3:2013+AMD1:2017
			FCC CFR Title 47, Part 15, Subpart B
	Warranty		3 years