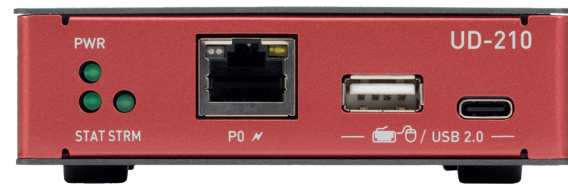


# OMNI-UD-210

USB over IP Device Transceiver



The BSS OMNI-UD-210 is a USB device endpoint that works together with the OMNI-UE-210 USB host endpoint for professional-grade, networked USB 2.0 extension and routing over Gigabit Ethernet. Designed for modern collaboration and education environments, this OMNI 200 system allows USB hosts to communicate with cameras, conferencing bars, touch displays, and other USB devices across rooms or facilities.

The OMNI-UD-210 includes USB-C and USB Type-B ports for connecting USB devices. It features Virtual Network USB 2.0 Hub technology, which allows a USB host computer, connected to an OMNI-UE-210, to communicate with USB devices located at up to six remote OMNI-UD-210 endpoints over a network. Supporting USB 2.0 data rates up to 480 Mbps, the system accommodates both high-bandwidth devices and standard USB HID peripherals, providing integrators with the flexibility to place cameras, microphones, keyboards, mice, and other USB devices wherever they are needed.

Additionally, the OMNI-UD-210 integrates seamlessly with the OMNI 600 AV-over-IP platform, enabling USB hosts to communicate with devices at up to six OMNI 600 decoders or OMNI 200 endpoints. This interoperability allows networked USB integration alongside AV, enhancing system design possibilities for networked AV applications.

The OMNI-UD-210 is designed for modern professional AV installations, with essential integration features including PoE+ remote powering, a low-power standby mode, and open APIs for third-party control.

## | FEATURE HIGHLIGHTS

- USB 2.0 data signal routing and extension over Gigabit Ethernet
- USB-C and USB Type-B interfaces for USB devices
- Supports USB 2.0 data rates up to 480 Mbps for high-bandwidth devices and USB HID peripherals
- Virtual Network USB 2.0 Hub for routing between a USB host and devices at up to six remote locations
- Mix and match with OMNI 600 Series networked AV encoders
- Also supports point-to-point USB 2.0 extension
- Plug-and-play operation with no driver installation necessary
- 5 watts (5 volts, 1 amp) power available on each USB device interface
- PoE+ powered with low-power (standby) mode to conserve energy
- Enterprise-grade network security and standards including IEEE 802.1x, HTTPS, TLS, AES-256 encryption, LDAP, VLAN tagging, and QoS
- AVX Suite for OMNI 200 system configuration and management
- HARMAN HControl and BSS Direct Control provide open APIs for third-party control integration

## | GENERAL SPECIFICATIONS

USB 2.0	
<b>USB Data</b>	Connect a USB 2.0 device such as a web camera, audio device, or any USB 2.0 device via USB-A or USB-C connector to the OMNI-UD-210. Route the OMNI-UD-210 to an OMNI-UE-210, OMNI-VE-630-WP, OMNI-VE-660, or AMX SVSI N2600 encoder.
<b># of USB Hubs (Internal)</b>	1
<b>Available USB Power</b>	5V 1A per port
LATENCY	
<b>Latency</b>	<2 ms
<b>USB Switching Stream-to-Stream</b>	Dependent upon the Host Computer and Device *Can take several seconds to negotiate
BANDWIDTH	
<b>Bandwidth</b>	Up to 500 Mbps
COMMUNICATIONS	
<b>Ethernet</b>	10/100/1000 Mbps, auto-negotiating, auto-sensing, full/half duplex, DHCP, and Static IP
<b>*Note</b>	Jumbo Frames Required
PORTS	
<b>P0 PoE+ (Female)</b>	10/100/1000Base-T Ethernet Port Provides network connection, network USB, and power
<b>USB-C (Female)</b>	Standard USB Type-C connector, 5V 1A
<b>USB-A (Female)</b>	Standard USB Type-A connector, 5V 1A
CONTROLS AND INDICATORS - FRONT	
<b>ID Button</b>	Flush pushbutton Press less than 4 seconds to send a network notification to identify the unit (the notification causes a pop-up dialog in AVX NAV Router to appear). Holding the button for longer than 30 seconds and releasing will cause the device to return to factory configuration.
<b>POWER LED</b>	On (green) when operating power is supplied (via PoE+)
<b>STATUS LED</b>	On (green) when there is software activity
<b>STREAM LED</b>	On (green) when the unit is sending a USB stream signal
POWER SUPPLY	
<b>Power over Ethernet (PoE+)</b>	Can be powered via a PoE+ switch or other equipment with a PoE+ source. Conforms to IEEE 802.3at Class 4 (802.3at Type 2)  NOTE: For the unit to receive Power over Ethernet (PoE+), it must be connected to a switch or other equipment that has a PoE+ PSE (Power Sourcing Equipment) port  Currently the device relies on a 1-event, OSI Layer-1 negotiation for power.  WARNING: Do not run wiring connected to a PoE+ PSE port outside of the building where the PSE resides. It is for intra-building use only.

## | GENERAL SPECIFICATIONS

INCLUDED ACCESSORIES	
Qty.	Description
8 (M3 x 9 mm) Flathead Philips Screw	#1 Philips Tip, attaches the joiner hardware to the devices
1	Painted metal spacer to join devices
1	Painted metal bracket to join devices
<b>*Note</b>	See Manual for Joiner Assembly Instructions
2	Painted L-Brackets
4 (M3 x 7 mm) Panhead Philips Screw	#1 Philips Tip, used to attach each L-Bracket to the device
ENVIRONMENTAL	
Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	45 BTU/hr
GENERAL	
Product Dimensions (LWH)	3.75" x 5" x 1.2" (95.2 mm x 127.6 mm x 30.3 mm)
Product Weight	0.60 lbs (Approx. 0.27 kg)
Shipping Weight	1.10 lbs (Approx. 0.50 kg)
Regulatory Compliance	FCC, CE, KCC, UKCA, and UL (Including 2043)
SKU	BSS-UD210

