

OMNI-UD-210-WP

USB over IP Device Transceiver Wallplate



The BSS OMNI-UD-210-WP 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-WP 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 four remote OMNI-UD-210-WP 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-WP integrates seamlessly with the OMNI 600 AV-over-IP platform, enabling USB hosts to communicate with devices at up to four 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-WP 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. It is housed in a US one-gang wallplate enclosure and includes black and white faceplate inserts and wallplate covers.

| FEATURE HIGHLIGHTS

- USB 2.0 data signal routing and extension over Gigabit Ethernet
- US one-gang wallplate enclosure with interchangeable black and white faceplate inserts and wallplate covers
- 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 four 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	
USB Data	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-WP. Route the OMNI-UD-210-WP to an OMNI-UE-210, OMNI-VE-630-WP, OMNI-VE-660, or AMX SVSI N2600 encoder.
# of USB Hubs (Internal)	1
Available USB Power	5V 1A per port
LATENCY	
Latency	<2 ms
USB Switching Stream-to-Stream	Dependent upon the Host Computer and Device *Can take several seconds to negotiate
BANDWIDTH	
Bandwidth	Up to 500 Mbps
COMMUNICATIONS	
Ethernet	10/100/1000 Mbps, auto-negotiating, auto-sensing, full/half duplex, DHCP, and Static IP
*Note	Jumbo Frames Required
PORTS	
P0 PoE+	10/100/1000Base-T Ethernet Port Provides network connection, network USB, and power
USB-C	Standard USB Type-C connector, 5V 1A
USB-A	Standard USB Type-A connector, 5V 1A

GENERAL SPECIFICATIONS

CONTROLS AND INDICATORS - FRONT	
RESET Button	Recessed pushbutton Press to initiate a 'warm restart' causing the processor to restart. A reset does NOT affect the current settings.
ID Button	Recessed 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.
POWER LED	On (green) when operating power is supplied
STATUS LED	On (green) when there is software activity
STREAM LED	On (green) when the unit is streaming a USB stream signal
POWER SUPPLY	
Power over Ethernet (PoE+)	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.
INCLUDED ACCESSORIES	
Qty.	Description
1	Face Insert alignment tool
1	Low-voltage trim ring back box
1	White Single-Gang cover plate
1	Black Single-Gang cover plate
1	White (PMMA) Face Insert with adhesive backing
1	Black (PMMA) Face Insert with adhesive backing
2 (6-32 x 1½")	Silver screws, mounting UD-210WP to Low-voltage ring
2 (6-32 x ½")	White screws, mount the White cover plate to OMNI-UD-210-WP
2 (6-32 x ½")	Black screws, mount the Black cover plate to OMNI-UD-210-WP
*Note	See Manual for Assembly Instructions
ENVIRONMENTAL	
Temperature	32° to 104°F (0° to 40°C)
Humidity	10% to 90% RH (non-condensing)
Heat Dissipation	45 BTU/hr

| **GENERAL SPECIFICATIONS**

GENERAL	
Product Dimensions (LWH)	2" x 1.8" x 4.24" (51.1 mm x 46.1 mm x 107.7 mm)
Product Weight	0.26 lbs (Approx. 0.12 kg)
Shipping Weight	0.76 lbs (Approx. 0.40 kg)
Regulatory Compliance	FCC, CE, KCC, UKCA, and UL
SKU	BSS-UD210WP

