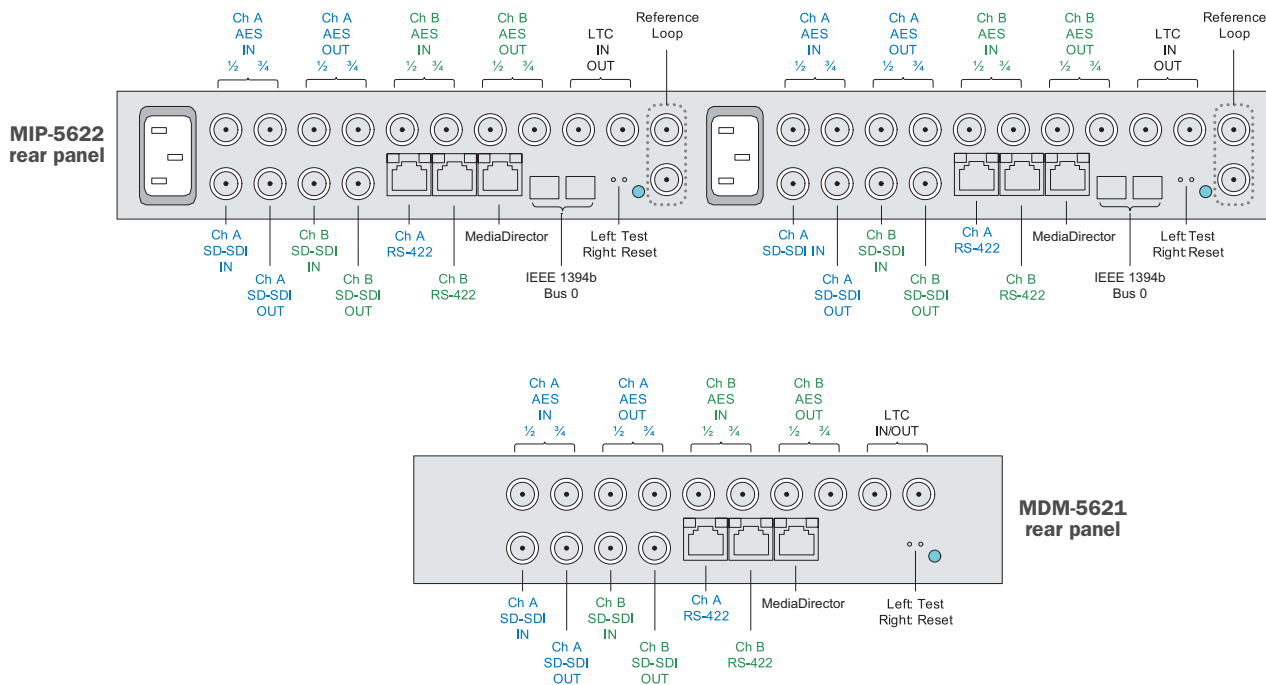


5600 Series AVC-Intra HD MediaPort MIP-5621, MIP-5622, and MDM-5621



The Omneon 5600 series AVC-Intra HD MediaPorts provide record and play of HD video and digital audio. The MIP-5621 and MIP-5622 are supplied in their own enclosure and connect to the server by external cabling. The MDM-5621 plugs directly into one of the two accessory slots of the MediaDeck, which supplies power, reference, and data via the backplane connector.

These MediaPorts offer the features described below. Unless otherwise specified, each feature applies to all models in the 5600 Series.

- Two (MIP-5621 and MDM-5621) or four (MIP-5622) HD SDI video input/output channels, compliant with SMPTE 292M
- Support for up to 16 channels of embedded audio, or up to 4 channels of discrete (AES/EBU) audio, per video channel
- Modules are “hot swappable” and can be replaced without disrupting other operations on the server
- Video data compressed using Panasonic AVC-Intra (H.264 intra-frame) method at Class 50 or 100 (selectable).
- Frame geometry of 1920 x 1080i @ 25 and 29.97 Hz, and 1280 x 720p @ 50 and 59.94 Hz.
- Horizontal sample rate of 1920 (Class 100) or 1440 (Class 50) at 1080i. Horizontal sample rate of 1280 (Class 100) or 960 (Class 50) at 720p.
- 4:2:0 (Class 50) or 4:2:2 (Class 100) chroma sampling.
- User-selectable MXF OP1a (self-contained essence), MXF OP1b, or QuickTime wrapper format
- Supports SDI embedded audio compliant with SMPTE 272M
- Supports pass-through (data mode) of pre-compressed audio such as AC-3 and Dolby™ E

Audio is supplied to the MediaPort by either the rear panel AES/EBU BNC connectors for up to 2 pairs (4 channels) per video channel, or by SDI embedded audio (16 audio channels per video channel). SDI embedded audio support in accordance with SMPTE 272M is a standard feature of the 5600 series, eliminating the need for external embedders and de-embedders.

■ PRODUCT SPECIFICATION

5600 Series AVC-Intra HD Media Port Specifications

Parameter	Specification	Detail
Video	SMPTE 292M and ITU-R BT.601 (data and electrical)	75 Ohm BNC (5621: 2 HD SDI Input/Output; 5622: 4 HD SDI Input/Output)
Audio	AES/EBU, 24 bits per sample @ 48 KHz Pre-Compressed Audio	4 channels (2 AES pairs), or embedded per SMPTE 272M AC. 75 Ohm BNC connector Pass-through (data mode) of AC-3 and Dolby E
Compression	Video: Panasonic AVC-Intra Class 50 and Class 100 Chroma: 4:2:0 (Class 50) or 4:2:2 (Class 100) Audio: Uncompressed PCM, 24-bit, 48 KHz	H.264 (MPEG-4 Part 10) Intra-frame encoded per Panasonic specification Per Panasonic specification Audio interleaved with video or stored separately
Video formats	1920 x 1080i @ 25 and 29.97 fps (Class 100) 1440 x 1080i @ 25 and 29.97 fps (Class 50) 1280 x 720p @ 50 and 59.94 fps (Class 100) 960 x 720p @ 50 and 59.94 fps (Class 50)	Full raster horizontal sampling $\frac{3}{4}$ – raster horizontal sampling Full raster horizontal sampling, Progressive scan $\frac{3}{4}$ – raster horizontal sampling, Progressive scan
Control	VDCP and limited BVW protocol Omneon Player API	RS-422 interface; RJ-45 connector, RJ-45 to DB-9 adapter supplied Control of 5600 series via software; access via Ethernet to server
Server interface	IEEE 1394b or Private 1Gb Ethernet	(MIP-562x) 1394b or dedicated Ethernet to MediaDirector (depending on MediaDirector model) (MDM-5621) 1394b interface by backplane connection to MediaDeck
Ancillary data	Stored interleaved with video essence SMPTE 334 and EIA-708	Timecode, Dolby metadata, Japanese subtitle, user-defined HD-SDI closed caption
Timecode	LTC Stored interleaved in video essence	75 Ohm BNC connector
Reference timing signal	Analog composite video with color burst, black	(MIP-562x) Supplied via REF LOOP connector (MDM-5621) Supplied by MediaDeck; sourced from MediaDeck REF LOOP connector
Environmental	Operating Temperature Humidity	+10C to +35C 10% to 80% non-condensing
Safety	USL/CNL	UL 670950-1, 1st Edition CSA C22.2 No. 60950-1-03, 1st Edition IEC 60950-1 (2001) 1st Edition
EMC	FCC Part 15, ICES-003 ICES-003 Directive of Electromagnetic Compatibility (89/336/EEC) including amendments CISPR 22	Class A for Digital Equipment, USA Class A for Digital Equipment, Canada EN55022:1998, EN55024:1998 Emissions from Information Technology Equipment Immunity for Information Technology Equipment Class A
Dimensions	MIP-562x: W: 44.4 cm (17.5 inches) H: 4.4 cm (1.75 inches) D: 64.6 cm (25.43 inches) 65.4 cm (25.75 inches) 66.5 cm (26.18 inches) MDM-5621: plugs into MediaDeck accessory slot	Chassis only, inside rack 1 RU Chassis front to chassis rear Chassis front to rear of BNC connectors Front of bezel to rear of BNC connectors (Front bezel extends forward [Max. 1.1 cm (0.4375 inches) from chassis front edge and rack ear plane.]
Weight	MIP-5621: 5.4 kg (12.0 lb) MIP-5622: 6.4 kg (14.2 lb) MDM-5621:	
Power	MIP-562x: 100-240V AC 45-63 Hz 120 W	(MIP-562x) Dual redundant power supplies with separate IEC sockets for standard power lead. (MDM-5621) Power supplied from MediaDeck.



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