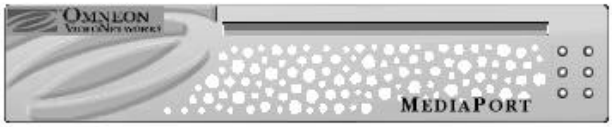
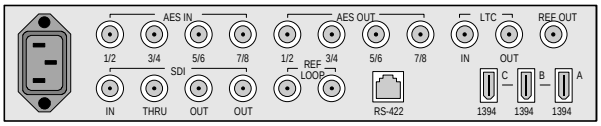
OMNEON MIP 1001A MEDIAPORT FOR DV/MPEG

A MEDIAPORT is an interface adapter that provides format conversion between the various supported formats and the Omneon Media Server System. A high-speed serial I/O bus provides the physical and logical connection between the MEDIAPORT and the MEDIASERVER. Each MEDIAPORT provides the ability for a single channel to be recorded to, or played back from the network. The following lists models of MEDIAPORTS in a variety of format configurations, ranging from SDTI transfer to full record/play of uncompressed ITU-R 601 I/O:

- MIP 1001a DV/MPEG MEDIAPORT
- MIP 1002 SDI/SDTI MEDIAPORT
- MIP 1003a DV/MPEG *Plus* MEDIAPORT
- MIP 1005 DVB/ASI MEDIAPORT
- MIP 1010a DV/MPEG *IMX* MEDIAPORT



MIP 1001a - Front Panel View



MIP 1001a - Rear Panel View

MIP 1001a Description and Specifications

Parameter	Specification	Detail
Video I/O	ITU-R BT.601	75 Ohm BNC (SDI Input, Loop, 2 x SDI Output)
Compression/ Decompression	DV (25 Mbps) DVCPRO (25 Mbps) DVCPRO 50 MPEG-2	DV, DVCPRO, DVCPRO 50 encoding and decoding. MPEG-2, CBR (Constant Bit Rate) support only, video elementary streams: • 25 - 50 Mbps, I-frame only, 4:2:2 profile MPEG-2 decoding only: • 3.0 – 15.0 Mbps, Long GOP, 4:2:0 profile • 15.1 – 24.9 Mbps, Long GOP, 4:2:2 profile
Audio	AES/EBU, 24-bit input/output 32/44.1/48 KHz input 48 KHz output DV Audio	8 channels (4 AES pairs), or Embedded/De-embedded per SMPTE 272M AC. 75 Ohm BNC connector 1 stereo pair, 16-bit, interleaved in DV stream
Control	RS-422 Serial Control	VDCP and BVW Protocol RJ-45 connector, RJ-45 to DB9 adapter
VBI Recording	 525 625	Up to 8 lines per field preserved selectable from Lines 10-21 and 273-284 (both fields) Lines 7-23 and 320-336 (both fields)
Timecode	LTC VITC	75 Ohm BNC Connector SDI – carried within video
High-speed serial I/O	IEEE 1394	3 x 400 Mbps 6-wire copper connectors Isochronous streaming, asynchronous read/write
Reference	Reference Video	Derived from MEDIASERVER or REF LOOP connectors.

MIP 1001a Description and Specifications (continued)

Parameter	Specification	Detail
Environmental	Operating Temperature Humidity	+10C to +35C 10% to 80% non-condensing
Safety	UL/CUL	CAN/CSA C22.2 No. 950-95/UL1950, Third Edition.
CE	Low Voltage Directive (73/23/EEC) including amendments	EN60950: 1992, A1+A2+A3+A4 Safety of Information Technology Equipment
EMC	FCC Part 15, ICES-003 ICES-003 Directive of Electromagnetic Compatibility EN55022: 1998 EN55024: 1998 CISPR 22	Class A for Digital Equipment, USA Class A for Digital Equipment, Canada (89/336/EEC) including amendments Emissions from Information Technology Equipment Immunity for Information Technology Equipment Class A
MEDIAPORT Dimensions	W: 22.2 cm (8.75 inches) H: 4.4 cm (1.75 inches) D: 54.6 cm (21.5 inches) 55.4 cm (21.83 inches) 56.5 cm (22.25 inches)	Chassis only 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	2.7 kg. (6.0 lbs)	
Power	100-240 V, 50-60 Hz, .5 Amp	Universal Power Supply

Note the following points regarding the **MIP 1001a**:

- 1RU tray (model **MRT 2001**) houses one or two MEDIAPORTS.
- The **REF OUT** BNC connector provides a composite output (monitor quality).
- The following additional features and functions are included:
    - E-E mode during encode — audio/video input is routed to the output for input monitoring.
    - E-E mode during idle/stop.
    - Source switching — the output audio/video stream can be switched from the input source to the decoder source — synchronous play is achieved once a number of frames have occurred.
    - Support for pre-compressed audio, with the ability to record and playout AC-3 and Dolby™ E audio pairs.