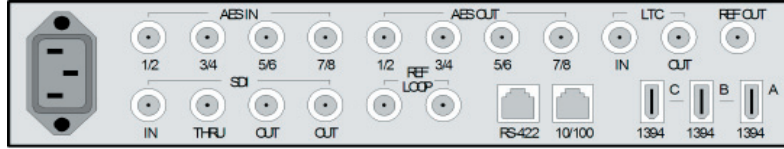


# MediaPort 1003a DV/MPEG Plus



**MediaPort 1003a - Rear Panel View**

The 1003a DV/MPEG Plus MediaPort is an interface adapter for video, audio, timecode and control. Video I/O format is selectable between DV (25 Mbps), DVCPRO (25 Mbps), DVCPRO 50 and MPEG-2. Encoding and decoding of MPEG 2 has three selectable ranges: (1) 3.0 – 15.0 Mbps, Long GOP, selectable 4:2:0 or 4:2:2 profile (2) 15.1 – 24.9 Mbps, Long GOP, 4:2:2 profile (3) 25 – 50 Mbps, I-frame only, 4:2:2 profile Audio I/O is provided through an AES/EBU interface that supports four stereo pairs. SDI embedded audio capabilities (per SMPTE 272M) are standard, eliminating the need for external embedders and de-embedders. The 1003a also supports pre-compressed audio, with the ability to record and playback AC-3 and Dolby™ E.

## MediaPort 1003a Specifications

Parameter	Specification	Detail
<b>Video I/O</b>	ITU-R BT.601	75 Ohm BNC (SDI Input, Loop, 2 x SDI Output)
<b>Compression/Decompression</b>	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, selectable as follows: <ul style="list-style-type: none"> <li>• 3.0 – 15.0 Mbps, Long GOP, 4:2:0 or 4:2:2 profile</li> <li>• 15.1 – 24.9 Mbps, Long GOP, 4:2:2 profile</li> <li>• 25 - 50 Mbps, I-frame only, 4:2:2 profile</li> </ul>
<b>Audio</b>	AES/EBU, 24-bit input/output 32/44.1/48 KHz input 48 KHz output  DV Audio Pre-Compressed 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 AC-3 and Dolby E
<b>Control</b>	RS-422 Serial Control	VDCP and BWV Protocol RJ-45 connector, RJ-45 to DB9 adapter
<b>VBI Recording</b>	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)
<b>Timecode</b>	LTC VITC	75 Ohm BNC Connector SDI – carried within video
<b>Reference</b>	Reference Video	Derived from MediaServer or REF LOOP connectors
<b>Environmental</b>	Operation Temperature Humidity	+10C to +35C 10% to 80% non-condensing
<b>Safety</b>	USL/CNL	CAN/CSA C22.2 No. 950-95/UL1950, Third Edition EN60950: 1992, A1+A2+A3+A4 Safety of Information Technology Equipment
<b>EMC</b>	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
<b>Dimensions</b>	W: 22.2 cm (8.75.5 in) H: 4.4 cm (1.75 in) D: 54.6 cm (21.5) 55.4 cm (21.83 in), 56.5 cm (22.25 in)	Chassis only 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
<b>Weight</b>	2.7 kg ( 6.0 lbs)	
<b>Power</b>	100-240 V, 50-60Hz, .5 Amp	Universal Power Supply

# MediaPort 1003a DV/MPEG Plus

## Included Accessories

Qty	Description	Note
1	Power Cord	1.83 Meters ( 6 ft.)
1	Cable IEEE 1394	IEEE 1394 Male to IEEE 1394 Male, 38.10 cm (15 in)
1	Ferrite Core for IEEE 1394 cable	
1	Cable, Ethernet CAT 5	RJ-45 Male to RJ-45 Male, 0.61 meters (2 ft.). Used with RS-422 adapter for remote serial control
1	Adapter, RS-422	DB-9 Female to RJ-45 Female
1	Tray Mount Label Kit	

### Additional 1003a Notes:

- 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



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