

UVRX-J2K-2022 – 4 Port 3G HD/SD/DVB-ASI/JPEG2000 Universal Video RX Module – Compressed Video

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The UVRX-J2K-2022 board is a “Universal” four port video receiver card with decompression that is compatible with SMPTE 2022 sources

KEY FUNCTIONS:

- JPEG2000 decoding in contribution quality, per ISO/IEC 1544-1 Annex A
- Extremely high video quality at 4:2:2 10 bit JPEG2000 part 1
- Reduced network bandwidth consumption
- External interface to HD/SD/DVB-ASI user circuit
- Internal electrical interface to MD8000 SW-CNT modules

KEY FEATURES:

- Outputs 1-4 input signals
- 3G-SDI/1080P
- 3D Dual-Link Supported
- ETR290 Performance Monitoring
- Optical or Electrical Video Interfaces
- SMPTE 2022 1/2 & 5/6
- Passes up to 16 uncompressed audio channels along with the V-Ancillary data and Time code
- Hitless Switching
- Auto Protection Switching (per Service/Port)
- Low Latency

A versatile and widely deployed MD8000 line module, the UVRX-J2K-2022 board is a “Universal” four port video receiver card with decompression that is compatible with SMPTE 2022 sources. The SMPTE 2022 specification describes a standardized method of encapsulating video signals for transmission across IP transport networks. Pairing this module with a compression card like the UVTX-J2K-2022 gives customers high quality video with significantly reduced bandwidth, saving transport costs and allowing more channels to be sent across the network.

The UVRX-J2K-2022 is compatible with the following SMPTE 2022 compliant encoder (source) line cards:

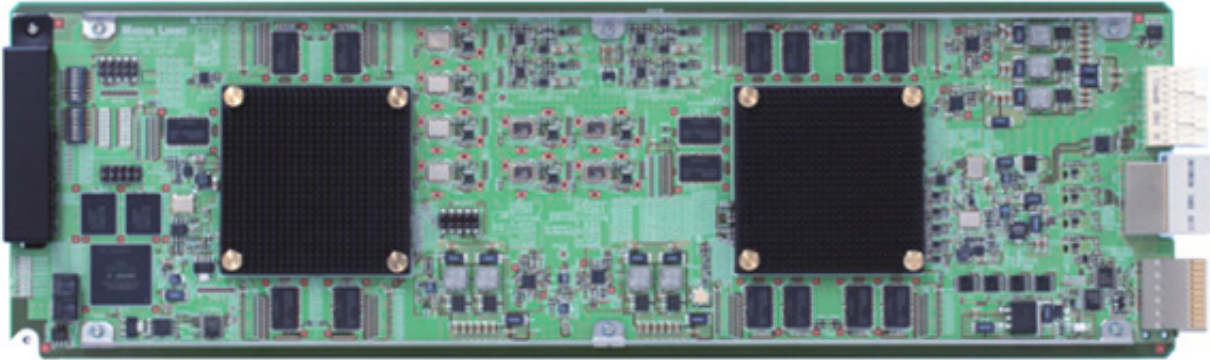
- MD8000-JPEG-2022
- MD8000-UVTX-2022
- MD8000-UVTX-J2K-2022
- MD8000-VIF-2022
- MD8000-VTX-4S-2022

The four Ethernet streams terminating on this line module can originate anywhere in the MD8000 network. All Ethernet packets sent to and received by this module are transferred across the MD8000 backplane via the Switch Controller module (SW-CNT). DVB-ASI output signals are reconstructed from the transparent Ethernet transport of MPEG2TS. Null packets within the ASI wrapper and are re-inserted at the destination matching the original DVB-ASI input signal. The MD8000-UVRX-2022 provides TR101-ETR290 performance monitoring and real time analysis of each DVB-ASI stream.

The UVRX-J2K-2022 provides resilient Forward Error Correction (FEC) and Lossless/Hitless path protection switching for extremely robust signal transport. Multiple format outputs supported simultaneously.

The UVRX-J2K-2022 module can output the following uncompressed signal types:

- DVB-ASI
- SD-SDI
- SDTI
- HD-SDI
- HD-SDTI
- 3G-SDI
- 3D dual-link



MD8000 – UVRX-J2K-2022 (SDI) – 4 Port HD/SD/DVB-ASI/JPEG2000 Universal Video RX Module – Uncompressed Video



MD8000 – UVRX-J2K-2022 (SDI) – Optical Rear Board Connectors



MD8000 – UVRX-J2K-2022 (SDI) – Electrical Rear Board Connectors

APPLICATIONS:

- Carrier Class Media Networks
- Flawless Contribution Video-Transport
- High Performance Studio Interconnects
- Reliable Content Delivery Systems
- Integrated Live, Recorded and File-Based Communications

FUNCTIONAL SPECIFICATIONS:

Output	SD-SDI HD-SDI	Format	625i (50 Hz), 525i (59.94 Hz); SMPTE 259M
			525i, 725P, 1080i, 1080P (59.94 Hz)
		Audio	Full VANC/HANC
		Interface	SMPTE 259M, SMPTE 292M, SMPTE 424M
	HD-SDTI/SDTI	Interface	SMPTE 305M, SMPTE 348M
	DVB-ASI	Format	MPEG2TS
	Maximum Cable Length	HD-SDI	70m
		SDI	200m
		DVB-ASI	100m (Belden 1694A)
	All	Signal Amplitude	800 mVp-p ± 10% (75 Ohm Load)
	Rise Time	0.4 - 1.5 ns (at 20% - 80% amplitude)	
	Fall Time	0.4 - 1.5 ns (at 20% - 80% amplitude)	
	ABS (Rise-Fall)	0.5 ns or less	
	impedance	75 Ohm, unbalanced	
	Return Loss	15 dB or more (5 MHz - 270 MHz) 10 dB or more (742.5 MHz - 1.485 GHz) < 10 dB (2.97 GHz)	
	DC Offset	0.0 V ± 0.5 V	
	Jitter	Timing: 0.2 UI or less Alignment: 0.2 UI or less	

ORDERING INFORMATION

MODEL	ORDER NUMBER	ORDER CODE
Universal 4 port Video Receiver - Supports transparent HD-1080P (2 ports), HD-SDI, SD-SDI and DVB-ASI. Supports JPEG2000 Decoding for HD-1080P, HD-SDI, SD-SDI. Includes electrical rear connector panel	MD801059	MD8000-UVRX-J2K-2022-C
Universal 4 port Video Receiver - Supports transparent HD-1080P (2 ports), HD-SDI, SD-SDI and DVB-ASI. Supports JPEG2000 Decoding for HD-1080P, HD-SDI, SD-SDI. Includes rear connector panel for four SFP cages. SFP's not included	MD801059	MD8000-UVRX-J2K-2022-O

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