

Description

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

Applications

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

Features & Benefits

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

Technical overview

- Made for the MD8000 and MD8000-100G networking platforms
- 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 SDI/SDTI/DVB-ASI user circuits
- Internal electrical interface to MD8000 SW-CNT modules

Compatible with

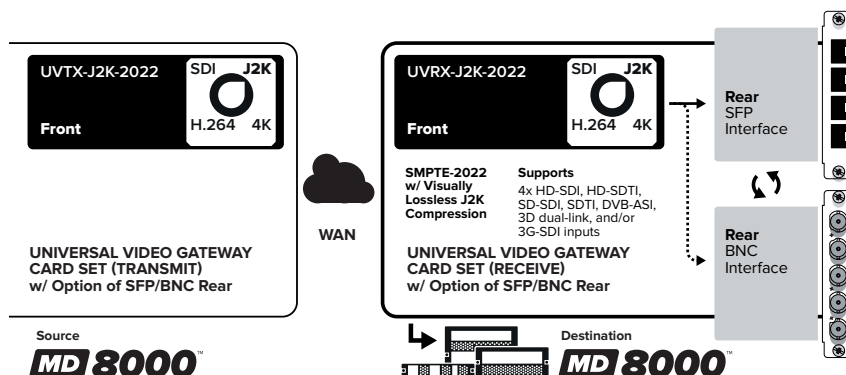
MD8000SX, MD8000, MD8000 EX and MD8000-100G Platforms

DATASHEET

UVRX-J2K-2022 4 Port 3G/HD/SD-SDI & DVB-ASI Video Receive Module with JPEG2000 Decompression

A versatile and widely deployed MD8000 line module, the UVRX-J2K-2022 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 module can output up to four uncompressed HD-SDI, HD-SDTI, SD-SDI, SDTI, DVB-ASI, 3D dual-link, and/or 3G-SDI signals.

The four Ethernet streams terminating on this line module can originate anywhere in a 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.

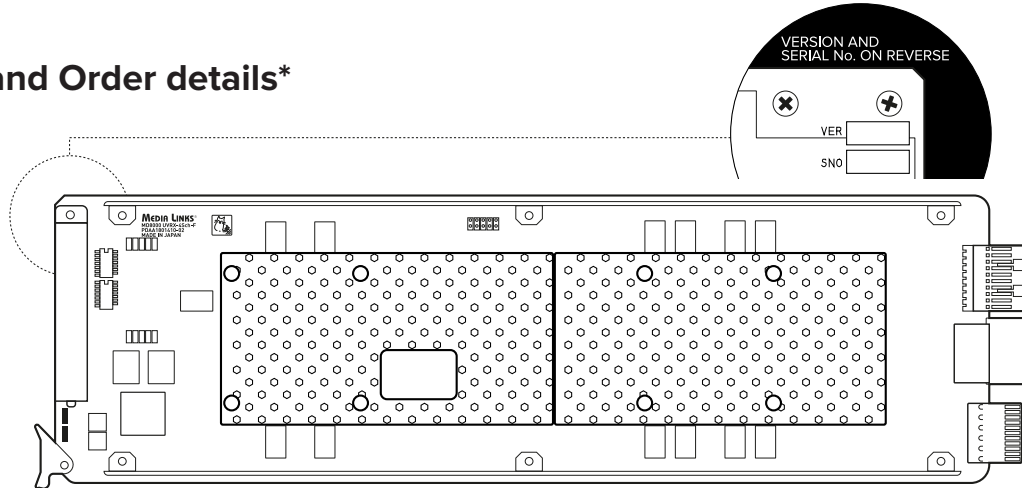


UVRX-J2K-2022 – 4 Port Universal Video RX Module: Highlights

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

Compatible with MD8000-2022 compliant encoder (source) line cards operating in either an uncompressed or JPEG2000 compression mode.

Product views and Order details*



ORDER YOUR PRODUCT

UVRX-J2K-2022 4 Port Universal Video RX Module

Supports 3G/HD/SD-SDI/DVB-ASI

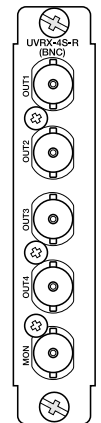
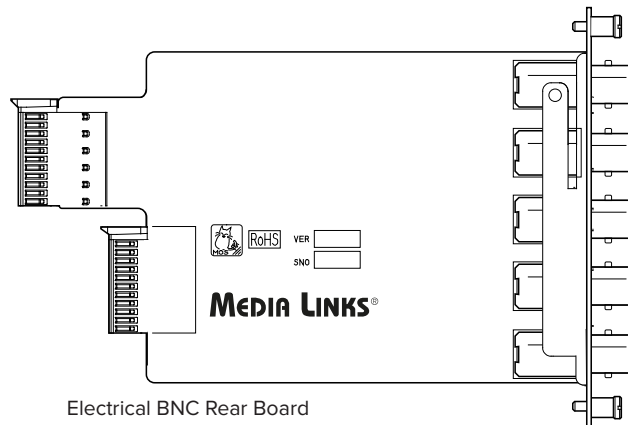
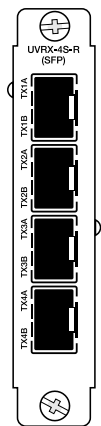
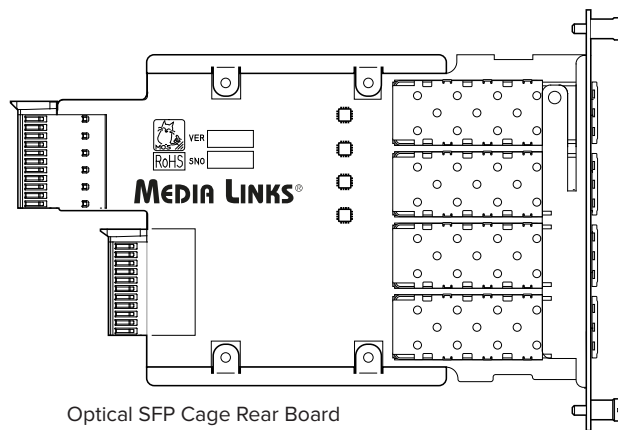
JPEG2000 Compression Decoder Card Set WITH OPTICAL REAR

Order Code (Front and Rear Card Set):
MD8000-UVRX-J2K-2022-O

(SFP's not included)

JPEG2000 Compression Decoder Card Set WITH ELECTRICAL REAR

Order Code (Front and Rear Card Set):
MD8000-UVRX-J2K-2022-C



*Cards shown not to scale. Media Links reserves the right to alter specifications without notice.

Service Specifications & Supported Parameters[†]

UVRX-J2K-2022 – 4 Port Universal Video RX Module: Physical and Optical Characteristics

Item			
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 \pm 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 \pm 0.5 V
		Jitter	Timing: 0.2 UI or less Alignment: 0.2 UI or less

General specifications

External dimensions	Front board: 17 mm (W) * 113 mm (H) * 367 mm (D) Rear board: 41 mm (W) * 96 mm (H) * 126 mm (D)	Weight	1 kg or less	Power consumption	33.0 VA or less
Board Structure	Front and Rear	Compliance	CE/CSA, NEBS Level 3		
Chassis slots needed	Front board occupies a 1-slot width Rear board occupies a 1-slot width	Operating temperature	0 ~ 40°C (Ambient) (Under the no-condensing humidity condition)		
		Redundancy modes	All MD8000 modes of operation are supported (Single/Class B/Class C/Class J)		

[†] Media Links reserves the right to to alter specifications without notice.

Media Links (Headquarters)
Kawasaki Tech Center 18F
580-16 Horikawa-cho,
Saiwai-ku, Kawasaki-shi,
Kanagawa 212-0013 Japan
Phone: +81 44-589-3440
query@medialinks.co.jp

Media Links Americas
431-C Hayden Station Road
Windsor, CT 06095
USA
Phone: +1 860-206-9163
Fax: +1 860-206-9165
info@medialinks.com

Media Links EMEA
Suite 18242, PO Box 6945,
London W1A6US
UK
Phone: +44 207 096 9569
emea_info@medialinks.com

Media Links Australia
2-12 Rokeby Street,
Collingwood, VIC 3066,
Australia
Phone: +61 3-9017-0175
Fax: +61 3-8456-6339
info@medialinksaustralia.com.au

www.medialinks.com

MEDIA LINKS®
Media Defined Networking™