

Description

The UVTX-2022 is a 'Universal' transmitter board capable of accepting up to four HD-SDI, HD-SDTI, SD-SDI, SDTI, DVB-ASI, 3D dual-link, and/or 3G-SDI inputs

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 video signals
- 3G-SDI/1080P
- 3D Dual-Link Supported
- Auto-Sensing on Video Inputs
- ETR290 Performance Monitoring
- Multi-format Signal Generator with ID
- Optical (SFP) or Electrical (BNC) Video Interfaces
- SMPTE 2022 1/2 & 5/6
- Interoperable with other SMPTE 2022 compatible products
- Hitless Switching

Technical overview

- Made for the MD8000 and MD8000-100G networking platforms
- 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

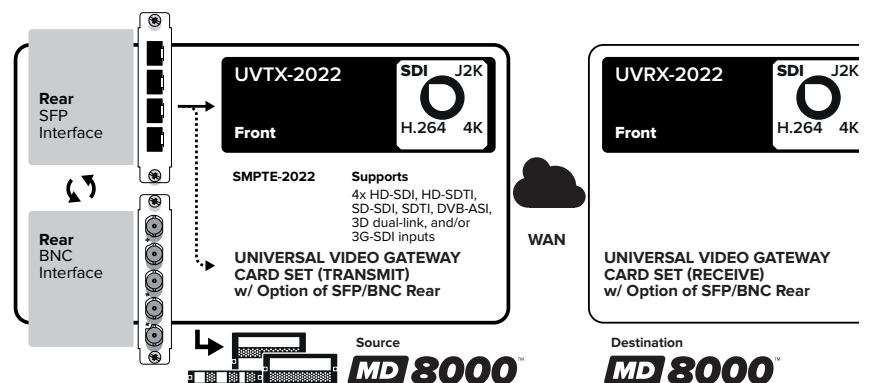
UVTX-2022

4 Port 3G/HD/SD-SDI & DVB-ASI Video Transmit Module with Uncompressed Processing

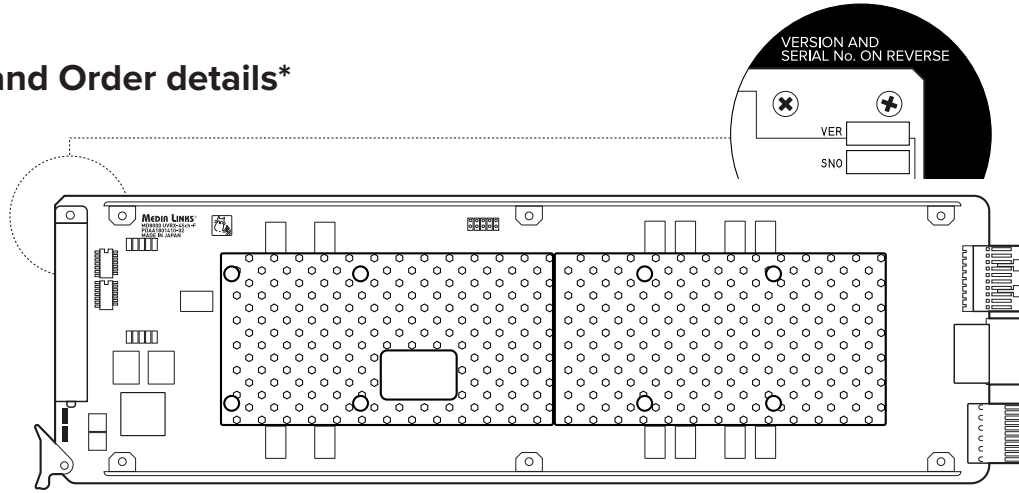
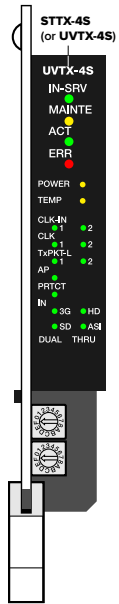
The UVTX-2022 is a 'universal' transmitter board capable of accepting up to four HD-SDI, HD-SDTI, SD-SDI, SDTI, DVB-ASI, 3D dual-link, and/or 3G-SDI inputs. Four Auto-Sensing inputs are provided with one monitor output and multiple format inputs are supported simultaneously. In addition to uncompressed 3G-SDI, HD-SDI, SD-SDI, or SDTI inputs, CBR (Constant Bit Rate) DVB-ASI signals (in either byte or burst mode) can be accepted. Inputs may be either electrical or optical.

All Ethernet packets sent by the UVTX-2022 module are transferred across a MD8000 non-blocking Layer 2 switch fabric where signal replication is supported over multiple 1GbE, 10GbE and/or 100GbE network interfaces. Each encapsulated video service can have a unique destination or multiple destinations in the network.

The SMPTE 425 Dual Link specification is supported for transport of 3D content, Level A 3D-HD-SDI & Level B 3D-3G-SDI. Additionally, the UVTX-2022 provides TR101-ETR290 performance monitoring and real time analysis of each DVB-ASI stream. Other network transport protection mechanisms include Hitless Switching for redundant paths and Auto Protection. A video generator (useful in circuit turn-up, testing, and troubleshooting) and an ID generator are built into this card.



Product views and Order details*



ORDER YOUR PRODUCT

UVTX-2022 4 Port Universal Video TX Module

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

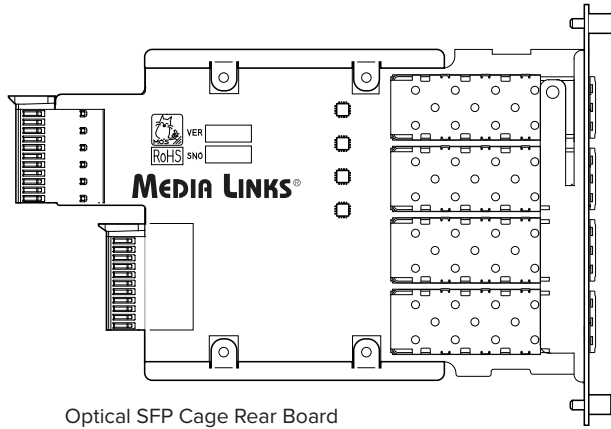
Encoder Card Set WITH OPTICAL REAR

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

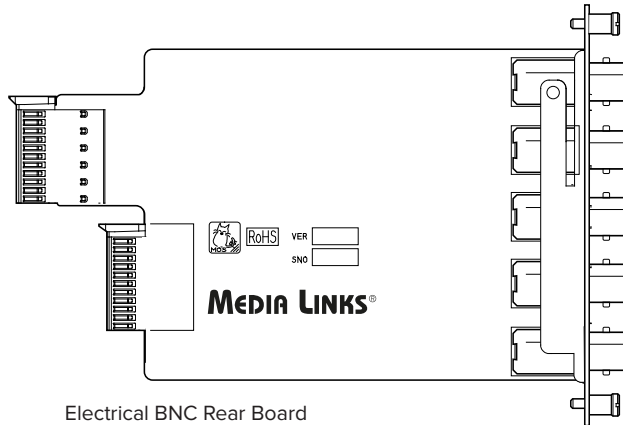
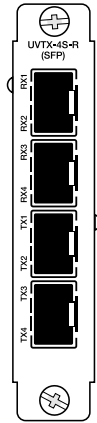
(SFP's not included)

Encoder Card Set WITH ELECTRICAL REAR

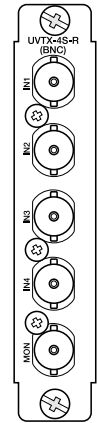
Order Code (Front and Rear Card Set):
MD8000-UVTX-2022-C



Optical SFP Cage Rear Board



Electrical BNC Rear Board



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

Service Specifications & Supported Parameters[†]

UVTX-2022 – 4 Port Universal Video TX Module: Physical and Optical Characteristics

Item				
Input	SD-SDI HD-SDI	Format	625i (50 Hz), 525i (59.94 Hz); SMPTE 259M	
			525i, 725P, 1080i, 1080P (59.94 Hz)	
		Audio / ANC	Full VANC / HANC	
		Interface	SMPTE 259M, SMPTE 292M, SMPTE 424M	
	HD-SDTI/SDTI	Interface	SMPTE 305M, SMPTE 348M	
	DVB-ASI	Format	MPEG2TS	
	All	Connectors	4x BNC Female, 4x SFP interface	
		Impedance	75 Ohm, unbalanced	
		Return Loss	15 dB or more (5 MHz - 270 MHz)	
		Max. Cable Length	200 m for SDI, 100 m for DVB-ASI (Belden 1694A)	
		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			

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	Operating temperature	0 ~ 40°C (Ambient) (Under the no-condensing humidity condition)
Chassis slots needed	Front board occupies a 1-slot width Rear board occupies a 1-slot width	Redundancy modes	All MD8000 modes of operation are supported (Single/Class B/Class C/Class J)		

[†] Media Links reserves the right 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[™]