

UVTX-2022 – 4 Port HD/SD/DVB-ASI Universal Video TX Module

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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.

KEY FUNCTIONS:

- External interface to SD/SDTI/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
- Auto-Sensing on Video Inputs
- ETR290 Performance Monitoring
- Multi-format Signal Generator with ID
- Optical or Electrical Video Interfaces
- SMPTE 2022 1/2 & 5/6
- Interoperable with other SMPTE 2022 compatible products
- Hitless Switching

APPLICATIONS:

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

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 HD-SDI, HD-SDTI, SDI or SDTI inputs, CBR (Constant Bit Rate) DVB-ASI signals (in either byte or burst mode) can be accepted by the UVTX-2022. Inputs may be either electrical or optical.

All Ethernet packets sent by the UVTX-2022 module are transferred across the MD8000 across a non-blocking Layer 2 switch fabric where signal replication is supported over multiple 1GbE, 10GbE and/or OC-192/48/12/3 network interfaces. Each encapsulated video service (HD/SD/DVB-ASI) 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 the UVTX-2022 card.



MD8000 - UVTX-2022 – 4 Port HD/SD/DVB-ASI Universal Video TX Module



MD8000 – UVTX-2022 (SDI) – Optical Rear Board Connectors



MD8000 – UVTX-2022 (SDI) – Electrical Rear Board Connectors

FUNCTIONAL SPECIFICATIONS:

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
	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)
Active Output	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 Transmitter - Supports transparent HD-1080P (2 ports), HD-SDI, SD-SDI and DVB-ASI. Includes electrical rear connector panel	MD801054	MD8000-UVTX-2022-C
Universal 4 port Video Transmitter - Supports transparent HD-1080P (2 ports), HD-SDI, SD-SDI and DVB-ASI. Includes rear connector panel for four SFP cages. SFP's not included	MD801054	MD8000-UVTX-2022-O

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