ADI video technologies ltd

MX2 MPEG-2 DVB (4:2:0 and 4:2:2) Professional Dual Channel Integrated Receiver Decoder with Multiple Inputs and Two ASI Outputs

DVB Digital Video Broadcasting

The MX2 is a professional grade receiver decoder providing high quality MPEG-2 4:2:0MP@ML and 4:2:2P@ML decoding. The MX2 is a dual decoder member of the ADI family of DVB IRDs: MX1, MX2, MX4 and MX16. The MX2 is fully compliant with the DVB and ATSC standards, has multiple inputs, provides two outputs, and is available in a number of configurations.

Benefits

Flexibility is provided through a wide range of input interfaces that include QPSK, 8PSK, 16QAM, DVB/ASI, IP streaming, electrical E3 and DS3.

Secure Transmission

The MX2 supports a number of secure CA systems to meet the need for secure encrypted transmission of content.
DVB Common Interface (CI)
BISS (1&E)

Reduced Operational Cost

Easy to use front panel control
Remote control via friendly user GUI

Transfer Private Data:

The MX2 can receive several data formats that include LSD over RS232 and HSD over Fast Ethernet.

Applications

A large number of features make this receiver ideal for highest quality reliable distribution of content.
Multi-channel decryption.
Satellite and cable Digital Turnaround.
CATV head end distribution.
Distribution and contribution for Telecommunications operators – Electrical E3 and DS3.
DVB-CI Decryption for transport stream re-multiplexing and decoder cascading.
IP streaming over 10/100BaseT.
IP Tran-streaming from any DVB inputs.
Program Identification (PID) filtering on ASI out and retransmission.
QUAD or PIP video monitoring.
Control and monitoring through IP.
TS recording (DVR).
The MX2 is an ideal solution for both CATV and Telco distribution markets with built in satellite and Telco interfaces.

Features and Options

4:2:0 MP@ML and 4:2:2 P@ML decoding providing maximum quality MPEG-2 video.
ASI I/O as default and second ASI I/O (option).
Configuration and control through front panel, terminal and IP.
VBI for re-insertion in composite and SDI.
Close caption.
Redundancy support, GPI dry contacts.
Two video – composite.
Two SDI with embedded audio (option).
Two video outputs – one broadcast and on monitoring.
Monitoring or PIP or QUAD splitter channel.
Two Audio – Stereo, AES/EBU or S/PDIF.
Dolby Digital (AC-3) LT/RT downmixing (option).
Dolby Digital (AC-3) Pass-through (option).
Genlock.
Inputs — one of four QPSK, or one of two QPSK and two ASI, QAM IP streaming.
Outputs — Two ASI, two A/V channels.

Computer Communication

2 RS232
1 Fast Ethernet for HSD and monitoring.

MX2 MPEG-2 DVB (4:2:0 and 4:2:2)
Professional dual Channels
Integrated Receiver Decoder

MX2 Rear Panel

Video and Audio Formats	**Video**		**Outputs**	**SDI Embedded**	
	Decoding: 4:2:2P@ML up to 50 Mbps 4:2:0MP@ML up to 15 Mbps			Connector:	BNC
	Audio			**AES/EBU**	
	Decoding of two audio services Musicam: Analog and digital output Dolby Digital 5.1 Digital pass through Dolby E: Digital pass-through only			Connector:	XLR
	All decompressed audio embedded in SDI Dual composite and dual SDI video output Extensive VBI support. VBI inserted in both composite and SDI output			**ASI** Connector:	BNC
Inputs	**QPSK L-Band**			**Data**	
	Connector:	F-Type		RS232 or RS422	
	1-4 DVB Satellite QPSK in and loop through with LNB control			Connector:	9-pin D-type female
	Frequency range:	950 - 2150 MHz		**Fast Ethernet**	
	Symbol rate range:	1 - 45 Msym/s		Connector:	RJ-45
	DVB DSNG	**(option)**		**GPI**	
	Connector:	F- type		Connector:	9-pin D-type female RS232 or RS422
	8PSK, 16QAM and QPSK				
	Frequency Range:	950-2150 MHz			
	Symbol rate Range:	1 - 45 Msym/s			
	DVB QAM for Cable Head End	**(option)**	**Conditional access**	**Conditional Access Options**	
	Connector:	F-type		DVB Common Interface BISS mode 1&E Support: Irdeto, Conax, Viaccess, MediaGuard, CriptoWork, NagraVision, TongFung, SECA	
	QAM demodulation:	16/32/64/128/256			
	VHF/UHF input:	44 – 858 MHz			
	Symbol Rate Range:	1- 7 Msym/s			
	Telecom Interfaces: E3, DS3 and IP Streaming	**(option)**	**Control**	Front panel keypad and LCD Remote control via RS232 and Fast Ethernet	
	Connector: 10/100BaseT	RJ-45, BNC			
	DVB ASI		**Dimensions**	1RU (19" RACK)	
	Connector:	BNC			
	180 Mbps transport stream				
Outputs	**Analog video formats: PAL, NTSC, Russian Secam**	BNC	**Power**	90/280 V ac	
	S-video		**Environmental conditions**	Operating temperature:	0°C to +50°C
	Connector:	DIN		Storage Temperature:	-20°C to +60°C
	QUAD or PIP MONITORING	**(Option)**	**Compliance**	CE compliant	
	Connector:	BNC			

US Subsidiary

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