

MX1 MPEG-2 DVB (4:2:0 and 4:2:2)
Professional Single Channel
Integrated Receiver Decoder with
Multiple Inputs and Two ASI Outputs



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

Benefits

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

configurations.

Secure Transmission

The MX1 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
- Remote control via user friendly NMS GUI

Transfer Private Data:

The MX1 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 MX1 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
- Closed 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



Dolby E: Digital pass-through only

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MX1 Rear Panel

Video and	Video	Outputs	SDI Embedded
Audio	Decoding:	-	Connector:

Audio 4:2:2P@ML up to 50 Mbps BNC **Formats** 4:2:0MP@ML up to 15 Mbps

Audio AES/EBU

XLR Decoding of two audio services Connector: Musicam: Analog and digital output Dolby Digital 5.1 Digital pass through

All decompressed audio embedded in SDI **ASI** Dual composite and dual SDI video output

Connector: **BNC** Extensive VBI support.

VBI inserted in both composite and SDI output **QPSK L-Band** Data

Inputs Connector: RS232 or RS422 F-Type 1-4 DVB Satellite QPSK in and 9-pin D-type female Connector:

loop through with LNB control 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 8PSK, 16QAM and QPSK RS232 or RS422

Frequency Range: 950-2150 MHz Symbol rate Range: 1 - 45 Msym/s

DVB QAM for Cable Head (option) Conditional **Conditional Access Options** End **DVB Common Interface**

access BISS mode 1&E Connector: F-type QAM demodulation: 16/32/64/128/256 Support: Irdeto, Conax, Viaccess, MediaGuard, CriptoWork, NagraVision, VHF/UHF input: 44 - 858 MHz TongFung, SECA Symbol Rate Range: 1-7 Msym/s

Telecom Interfaces: E3, (option) Front panel keypad and LCD Control **DS3 and IP Streaming** Remote control via RS232 and Fast

Ethernet Connector: **BNC RJ-45** 10/100BaseT

DVB ASI 1RU (19" RACK) **Dimensions** Connector: **BNC**

180 Mbps transport stream **Analog video Formats:** 90/280 V ac **Outputs** Power

PAL, NTSC, Russian Secam BNC Connector:

> Operating S-video **Environmental** 0°C to +50°C temperature: DIN Connector: conditions Storage -20°C to +60°C

Temperature: **QUAD or PIP MONITORING** BNC (option) CE compliant

Compliance Connector:

US Subsidiary Corporate Offices

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