ADI video technologies ltd

MX4 MPEG-2 DVB (4:2:0 and 4:2:2) Professional quadrature channels Integrated Receiver Decoder with Multiple inputs and ASI out.

DVB Digital Video Broadcasting

The MX4 is a professional grade receiver decoder Providing high quality MPEG-2 4:2:0 MP@ML and 4:2:2P@ML decoding. The MX4 is a quatrature decoder member of the ADI family. Of DVB IRS's: MX1, MX2 MX4 and MX16. The MX4 is fully complains with the DVB and ATSC standards, has multiple inputs, Providing up to four A/V broadcast signals and ASI out, available in a Number of configurations.

General - The MX4 multi-channel MPEG-2 / DVB decoder is designed to reduce cost, improve rack space efficiency and provide video, audio and data requirements of television broadcast, cable and satellite operations.
The MX4 decoder is fully compliant with the MPEG-2 and DVB standards, providing a fully interoperable decoder for digital media networks. It provides decoding of four independent program services provided by three separate transport stream inputs. All the selected programs may be presented either on four different monitors or on a single monitor in a quad (optional) view.
The space-efficient 1U form factor and low power consumption make the MX4 decoder ideally suited to multi-channel operations where space is limited. It also allows for cost-efficient channel expansion by providing a 4:1 reduction in rack space requirements.

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 MX4 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 MX4 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 monitoring.
Control and monitoring through IP.
TS recording (DVR).
The MX4 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.
Configuration and control through front panel, terminal and IP.
VBI for re-insertion in composite and SDI.
Close caption.
Redundancy support, GPI dry contacts.
Four video – composite.
Four SDI with embedded audio (option).
Four video outputs for broadcast.
QUAD splitter channel Monitoring.
Four Audio – Stereo, AES/EBU or S/PDIF.
Dolby Digital (AC-3) LT/RT downmixing (option).
Dolby Digital (AC-3) Pass-through (option).
Genlock.
Inputs — QPSK, ASI, QAM IP streaming.
Outputs — ASI, four A/V channels.

Computer Communication

2 RS232
1 Fast Ethernet for HSD and monitoring.

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DVB Digital Video Broadcasting

MX4 Rear Panel

Video and Audio Formats

Video

Decoding:
4:2:2P@ML up to 50 Mbps
4:2:0MP@ML up to 15 Mbps

Audio

Decoding of two audio services
Musicam: Analog and digital output
Dolby Digital 5.1 Digital pass through
Dolby E: Digital pass-through only

All decompressed audio embedded in SDI
Dual composite and dual SDI video output
Extensive VBI support.
VBI inserted in both composite and SDI output

Inputs

QPSK L-Band

Connector:	F-Type
1-4 DVB Satellite QPSK in and loop through with LNB control	
Frequency range:	950 - 2150 MHz
Symbol rate range:	1 - 45 Msym/s

DVB DSNG

Connector:	F- type
8PSK, 16QAM and QPSK	
Frequency Range:	950-2150 MHz
Symbol rate Range:	1 - 45 Msym/s

DVB QAM for Cable Head End

Connector:	F-type
QAM demodulation:	16/32/64/128/256
VHF/UHF input:	44 – 858 MHz
Symbol Rate Range:	1- 7 Msym/s

IP Streaming

Connector:	RJ-45
10/100BaseT	

DVB ASI

Connector:	BNC
180 Mbps transport stream	

Outputs

Analog video

Connector:	BNC

S-video

Connector:	DIN

QUAD MONITORING ON 5th CHANNEL

Connector:	BNC

Outputs

SDI Embedded

Connector:	BNC

AES/EBU

Connector:	XLR

ASI

Connector:	BNC

Data

RS232 or RS422

Connector:	9-pin D-type female

Fast Ethernet

Connector:	RJ-45

GPI

Connector:	9-pin D-type female RS232 or RS422

Conditional access

Conditional Access Options

DVB Common Interface
BISS mode 1&E
Support: Irdeto, Conax, Viaccess, MediaGuard, CriptoWork, NagraVision, TongFung, SECA

Control

Front panel keypad and LCD
Remote control via RS232 and Fast Ethernet

Dimensions

1RU (19" RACK)

Power

90/280 V ac

Environmental conditions

Operating temperature:	0°C to +50°C
Storage Temperature:	-20°C to +60°C

Compliance

CE compliant

US Subsidiary

A.D.I. Video Technologies
Jonathan Landman
23945 Calabasas Road Ste 114
Calabasas CA 91302 USA
T 818-224-3654; F 818-222-4579; C 818-667-4258
E-mail: jon@adi-vt.com

Corporate Offices

A.D.I. Video Technologies Ltd.
Ha'marpe 7, Har Hotsvim Jerusalem, Israel
Tel: +972-2-5714011/ Fax: +972-2-5714033
Email: sales@adi-vt.com /Contact: David Reznik