

MXTS - Multi-Program DVB Audio Encoder

Technical Data

BASIC FRAME MXTS

Includes:

- Multiplexer card
- Control and management card
- Alarm / status output and Remote Control
- 2 slots for power supply modules
- 1 slot for output module (2 on –A model)
- 10 slots for various input models

19" sub-rack 3 RU, free standing or rack mount
Depth 360 mm, 13 slots for modules, inserted from the rear, convection cooling

INPUT MODULES

AA Module – Analogue Audio Encoder

1 stereo/ 2 mono channels
Balanced inputs high impedance (> 20 kohm)
Max. Input +18 dBu to 0 dBu, selectable
Stereo, Joint stereo, dual mono
Bit rates acc. to MPEG1/2 LII, 32 to 384 kbit/s
Sampling rates acc. to MPEG 1 and 2, 16 to 48 kHz
MPEG4 AAC (LC, LD, HE) optional

DA Module – Digital Audio Encoder

Specs according to AA module, except:
AES-3 input balanced 110 ohm (AES/EBU)

Data Options for Encoder Modules AA and DA

Ancillary Data acc. to MPEG, within coded audio
EIA RS 232 async.
Baud rates 1.2 to 115.2 kbd async, to 9.6 kbd sync.
Protocols UECP (RDS SPB 490, V 6.01, 2003)
Transparent DVB/ EN 300 468/ TR 101 154

DD Module – Pass-Through Dolby Digital Audio

Transparent processing of Dolby Digital encoded audio
All modes and channel configurations acc. to AC-3
AES-3 input balanced 110 ohm (AES/EBU)
Bit rates 56 to 640 kbit/s

X Module – DVB Adapter for Pre-encoded Audio

Accepts data and clock from external encoders
X.21 interface acc. to CCITT
Compliant with telecom leased lines
Optional: MPEG decoder for headphone monitoring

IP Module – DVB adapter for Streaming Audio

Ethernet interface

E1 Module – Adapter for one Pre-encoded Audio

Accepts 2 Mbit/s signal from external Mux/ E1 lines
E1 interface acc. to ITU-T G.703/ 704
1 program nx 64 kbit/s selectable
Optional: MPEG decoder for headphone monitoring

Private Data Option for Encoders and X Module

Additional data channel, async. serial data, own PID
EIA RS 232 interface
Baud rates 1.2 to 115.2 kbd async

OUTPUT MODULES

DVB MPTS Output Module

3 different versions:

- Dual ASI and Dual E1 outputs
- Dual ASI outputs
- Redundant modules (MXTS-A)
Incl. Alarm/ Remote control I/O

Control & Management (in basic frame)

Front panel LCD, 4 lines 40 characters, 6 keys
Serial interface EIA RS232 for terminal control
VT100/Hyper Terminal, no external S/W
Web-based GUI
Optional: SNMP v3 management

Alarm and Status Output (in basic frame)

25 pin D, located on OUT module or A modules (MXTS-A)
24 alarm contact loops, common return
Loops assignable to alarm and status events
Electronic relays, protected
Max. Load 60 V, 50 mA

Remote Control Inputs (in basic frame)

9 pin D, located on OUT module or A modules (MXTS-A)
4 input pairs for external dry loops
Max. Loop load 10 mA, 12 V
Opto coupler
Assignable to configuration changes

Back-up for X.21 Type Leased Line (Option)

Fully programmable features for automatic back-up applications over ISDN (up to 4 B-channels) or a second X.21 link (*external equipment needed!*)

Power Supply Module

Two modules for redundant supply
AC 90 to 250 V, DC 36 to 72 V
Hot swappable
Individual IEC connector, fuse and switch per module

Standards Compliance

DVB standards EN 300..., ETR 101 290
MPEG standards ISO/ IEC 11172-1/3, 13818-1/3
ITU-T G.703, 706, 823
ITU-R. J.52
AES/ EBU (AES-3) 1992
CE for safety and EMC