MUX7400

IP ASI to T2MI Gateway

ASI DVB T2 DVB Digital Video Broadcasting SFN/MFN

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MUX7400 DVB-T2 gateway Multiplexer and Re-multiplexer developed for T2-MI gereration for DVB-T2 digital Television standards. It can encapsulate into a T2-MI stream multi TS stemming from a multiplexer or directly from encoders. MUX7400 DVB-T2 Gateway, can support up to 8 ASI or 512IP inputs and Multiplexing to one T2-MI packets over4* ASI and 2*IP out.

Based on the most widely DVB-T2 Gateway, **MUX7400** is compliant with the major transmitter manufacturers guaranteeing a safe DVB-T2 broadcasting over SFN networks. It can provide an end-to-end regionalization solution using PLP substitution or PLP aggregation technology.

Features

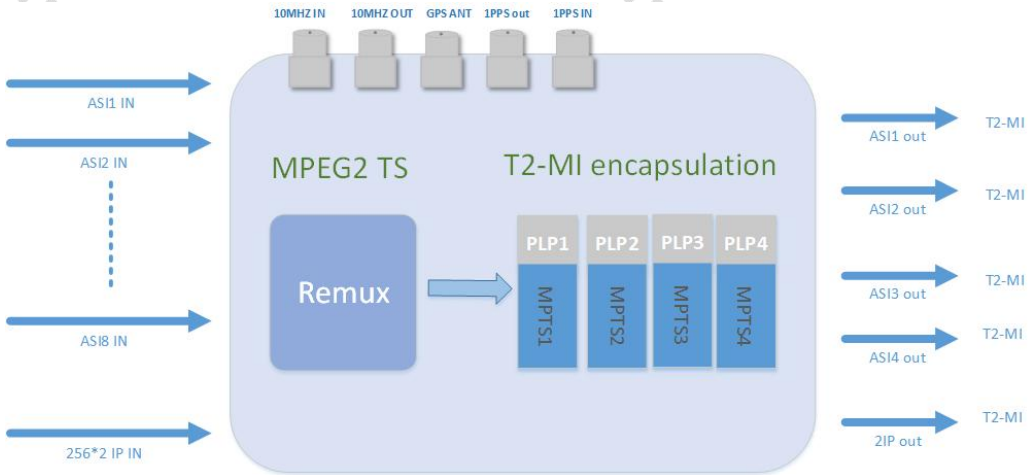
- 8 ASI port and 512*IP inputs, 4 ASI and 2 IP out, 1RU Chassis
- Simultaneous Multiplexed output over UDP IP, ASI
- DVB-T2 compliant
- Allows configuration of PSI/SI tables and The respective transmission layer definition
- PCR correction and PID Filtering,Remapping and Passthrough Capabilities with User-Defined PID Value and any Index of In/Out TS
- IP information generation and inserting
- Encapsulation into DVB-T2 baseband frame
- Single and Multi-PLP handling (MAX 4 PLPs)
- Configuration of DVB-T2 modulators
- Save power-off memory function
- DVB-T2 SFN Adaption with MISO support
- Up to 4 PLP support
- Generation of T2-MI packets over ASI and IP
- Support Network remote upgrade
- Easy-to-Use System Management via Web/LCD Panel

Application

- DVB-T2 Regionalisation
- DVB-T2 SFN/MISO build-up
- DVB-T2 Mobile broadcasting

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Principle Chart



TECHNICAL SPECIFICATIONS

Signal Inputs

MPEG-TS	Up to 8 Ports DVB-ASI
IP	256*2
Impedance	75 Ω
Connector	BNC
TS Packet Size	188/204 bytes

Clock Reference Input

Number of Port	1 port input, 1 port Loopout
Frequency	10MHz, BNC, 50Ω
Frequency stability	>0.05ppm(Internal); >0.5ppb(External)
Electrical level	100mV-3Vpp
Reference	Internal; External

Time Reference Input

Number of Port	1 port input, 1 port Loopout
Frequency	1PPS, BNC, 50Ω
Frequency stability	<16us
Electrical level	TTL
Reference	Internal; External

T2-MI stream Outputs

DVB-ASI	Two separate ASI Ports, BNC, 75 Ω
GbE Transport Stream	Two separate GBE port
output mod	SISO /MISO
guard interval	1/32, 1/16, 1/8 , 1/4
RF bandwidth	5/6/7/8 M
Pilot pattern	PP4 /PP7

DVB-T2 Standard

ETSI EN 302 755 V1.1.1, V1.2.1, V1.3.1, V1.4.1
ETSI TS 102 773 V1.1.1, V1.2.1, V1.3.1, V1.4.1

PLP Constellation	QPSK, 16QAM, 64QAM, 256QAM (Normal or Rotated)
PLP Transmission Mode	HEM/NM
PLP LDPC Size	16K/64K
PLP Code Rate	1/2, 3/5, 2/3,3/4, 4/5, 5/6
PLP Constellation	QPSK, 16QAM, 64QAM, 256QAM
L1 Constellation	BPSK, QPSK, 16QAM, 64QAM
FEC Length	Short(16K), Normal (64K)
FEC Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
FFT Mode	1k, 2k ,4k, 8k, 16k, 32k (normal or extended)
FEC Type	BCH+LDPC
Bandwidth	5MHz, 6MHz, 7MHz, 8MHz
T2 Frames Number	2~255
NUM Data Symbols	60
Network Mode	SFN/MFN

SFN Adaptation

T2 Timestamp generation
MISO support

PLP management

Single and Multi-PLP handling (MAX 4 PLPs)
Type1 and type 2 PLP management

Control Interfaces

Front Panel	2 line char LCD; 7* keyboard
Port	RJ45, 10/100BaseT,SNMP
Language	English
Alarm Status	PLL Lock; Layer Overflow; Teperature Alarm

ENVIRONMENT

Power Supply	AC 110V±10%; AC 220V±10%;50/60Hz;
Consumption	30W
Temperature	0 ~ 45℃(operation), -20 ~ 80℃ (Storage)
Dimensions	482mm × 455mm × 44.5mm
Weight	6.0kg

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