

T-MUX ISDB-T™

Professional TS Multiplexer with Eight ISDB- T/Tb Inputs and Two ISDB-T/Tb Outputs – Combines 2 to 8 MPEG-2 or H.264 Transport Streams, SPTS or MPTS, into Two ISDB-T Outputs. Supports PSI/SI Table Editing and Generating, Single Frequency Network, and IP Packet Editing and Inserting. Input Stream Bit Rates up to 214 Mbps per Channel. Front Panel Controls and Remote Management.



ISDB-T

H.264
MPEG-4/AVC

MPEG-2

Features

- Multiplexes MPEG-2 or H.264 transport streams (SPTS/ MPTS)
- Inputs: 8 ISDB-T inputs (maximum 214 Mbps per input)
- Supports one external GPS 10 MHz reference clock and one PPS; supports SFN
- Outputs: 2 ISDB-T outputs (combined output bit rate fixed at 32,507,936 bps)
- PI/SI generation and editing; data descriptors insertion
- Supports PCR correction and PID re-mapping
- Huge buffer, sudden code stream resistance
- Transport stream packet size: Input – 188 bytes, Output – 204 bytes
- Complies with ISDB-T and ISDB-TB standards
- Supports hierarchy transmission for layer A/B/C
- Transmits existing user defined tables in transport stream
- Able to remove any channel of inputted PSI/SI with PID filtering and remapping functions
- Filters program information and specifies PIDs
- Re-defines PAT, PMT and other PSI/SI tables
- Separately sets the parameters such as time delay for each device when it works in SFN mode
- Can set number of segments, encoding code rate, and modulation mode for each layer
- IIP packet editing and insertion
- LCD front panel controls plus web-based management

Overview

Multiplexers combine many transport streams into a single multiplex transport stream, or “mux” for short. They also combine several multiplexes into a single remultiplex, or “remux”.

ISDB-T is the terrestrial modulation system adopted by Japan, Brazil, Peru, and Argentina. It’s governed by the ARIB standard.

The T-Mux ISDB-T is a professional MPEG-2 or H.264 transport stream multiplexer with eight ISDB-T inputs. The system can transfer head-end single program transport streams (SPTS) and multiple program transport streams (MPTS) to ISDB-T standard transport streams. It supports two separate multiplexers in the same system, and outputs two separate multiplexed ISDB-T MPEG-2 or H.264 transport streams.

The T-Mux ISDB-T combines or muxes incoming ISDB-T transport streams, SPTS or MPTS, to MPTS. It also supports PSI/SI table editing and generating, single frequency network, and IIP packet editing and inserting

The T-Mux ISDB-T automatically regenerates PSI and SI tables and supports PCR correction and PID re-mapping.

Applications

- ISDB-T broadcasting
- Local transport stream creation
- Head-end applications
- PID filtering
- PSIP table modification

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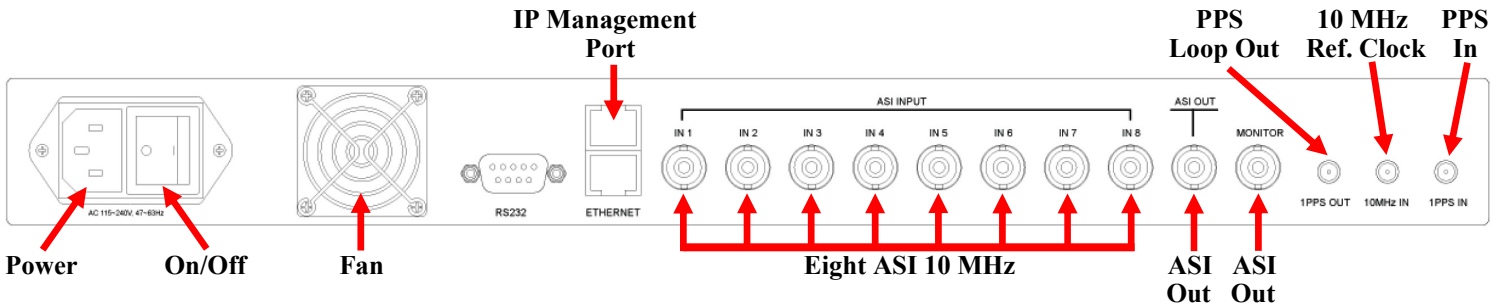
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Inputs/Outputs



Sample GUIs – Coming Soon

Specifications -- Continued

Specifications

Inputs

Inputs:	8 ISDB-T inputs
Connectors:	BNC
Packet Length:	188 or 204
Input Bit Rate:	Up to 214 Mbps per each input
Modes:	TS packet mode and suddenly code rate mode
GPS:	10 MHz reference clock; One PPS Signal
Codec:	MPEG-2 or H.264 transport streams

Re-multiplexing

PID Mapping:	256 PID mapping for each group (manual, auto optional)
PCR Correction:	Supports PCR Correction
PSI/SI Tables:	Automatically generates PSI/SI tables

Modulation Parameters

Modes:	Mode 1(2k), Mode 2(4k), Mode 3(8k)
Guard Intervals:	1/4, 1/8, 1/16, 1/32
Coding:	1/4, 2/3, 3/4, 5/6, 7/8
Constellations:	DQPSK, QPSK, 16QAM, 64QAM
Layers:	A, A+B, A+B+C
Bandwidth:	6 MHz, 7 MHz, 8 MHz

SFN Parameters

Maximum time delay:	0 ms ~ 1000 ms
Offset:	-1000 ms ~ +1000 ms
Device ID:	0 ~ 30

Outputs

Outputs:	Two separate IDSB-T outputs
Output Bit Rate:	32,507,936 bps
PPS:	One 10 MHz loop out

Administration

Local:	Front panel operation, LCD display
Remote:	Web/Silverlight™ based GUI via web

Physical and Power

Dimensions:	19 x 11.8 x 1.73 inches (W x D x H) 483 x 410 x 44 mm (W x D x H)
Weight:	9.92 lbs. (4.5 Kg)
Power Supply:	AC 85 ~ 286V
Operating Temperature:	14 to 122 °F (-10~50°C)
Conformities:	FCC, CE, RoHs

Ordering Info

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