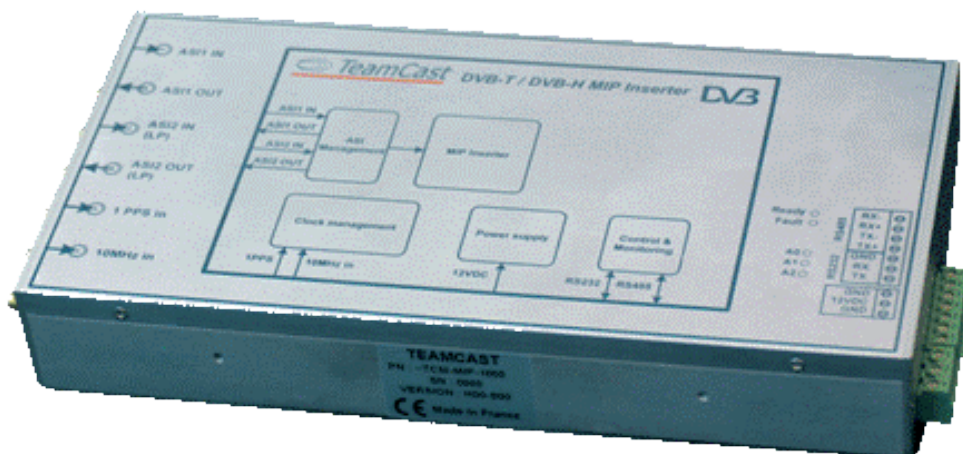


MIP-1000

DVB-T/H and DTMB MIP Inserter



Key features:

- SIP Insertion Function for DTMB SFN Network
- DVB-T/H full modes implementation
- Efficient TS input management for redundancy
- Compact size for easy OEM integration
- Single 12 V power supply

Description

The MIP-1000 is the most integrated and cost effective MIP inserter for addressing the OEM market. It provides the opportunity for system integrators to launch their own MIP inserter products for DVB-T/H and for the new emerging terrestrial DTV market in China! The MIP-1000 performs bit rate adaptation, PCR re-stamping and generates the Mega-Frame stream structure mandatory for SFN network synchronization.

Fastest Time to market

As with all TEAMCAST modules, the MIP-1000 product consists of a compact and powerful unit, especially designed and developed for fast integration. The MIP-1000 takes benefit from TEAMCAST's strategy for rapid modulator development as new standards and specifications evolve. In synchronisation with the launch of the new DTMB MFN/SFN modulator product range, the MIP-1000 platform supports now both DVB-T/H and DTMB technologies. This provides the opportunity for system integrators to launch rapidly their own product ranges for the Chinese market.

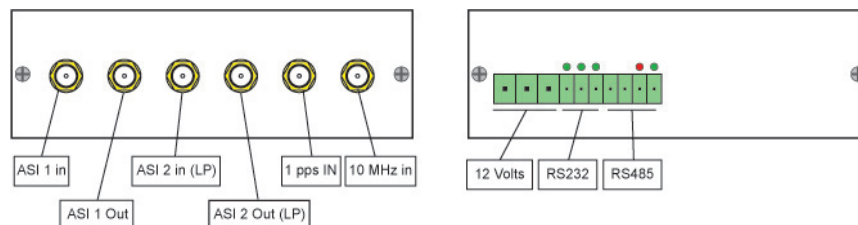
Performance & Reliability

MIP-1000 module includes all the state-of-the-art technological features for DVB-T/H and DTMB mega-frame processing. The MIP-1000 inserter can be used in hierarchical modes (DVB-T/H) or in the 1+1 redundant mode performing automatic and seamless input switching. It implements the MIP mandatory fields and the optional functions that ease the SFN network set-up and tuning on the field. The MIP-1000 is fully compliant with the major DTMB modulation technology available today for the Chinese market.

MIP-1000

DVB-T/H and DTMB MIP Inserter

Connectors



Specifications¹

■ Standards

- o GB20600-2006, ISO/IEC 13838-1, ETSI TS 101 191 & ETS 300 744

■ MPEG-TS Inputs

- o 2 x ASI inputs (SMA connectors)
 - Redundant input with automatic switching in non hierarchical modes
 - HP and LP input in hierarchical modes
- o 188/204 bytes, RS error correction, bit rate adaptation and PCR restamping

■ MPEG-TS Outputs

- o 2 x ASI outputs (SMA connectors)
 - Duplicated output in non hierarchical modes
 - HP and LP output in hierarchical modes
- o 188/204 bytes, RS bytes

■ Clock and Synchronization

- o High quality internal clock
- o 10 MHz and 1 pps external reference (from a GPS) for SFN operation

■ MIP Processing

- o Computes and inserts all information in the mandatory and optional MIP fields
- o Builds the mega-frame structure and computes the synchronization information from the GPS signal
- o Computes the time stamps with a resolution of 100 ns
- o 5, 6, 7 or 8 MHz channel bandwidth supported
- o Maximum network delay adjustable from 0 to 1 second

■ Control & Monitoring

- o RS232 & RS485 control port with ASCII protocol

■ Physical

- o Supply voltage: 12 V
- o Compact aluminium package (220 x 110 x 35 mm) with very low thermal resistance
- o Operating temperature range: 0° to 50°C

Ordering Information

xTTM-MIP0-1000	MIP/SIP Inserter for DVB-T/H and DTMB
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¹ Specifications are not contractual and are subject to revision without notice.