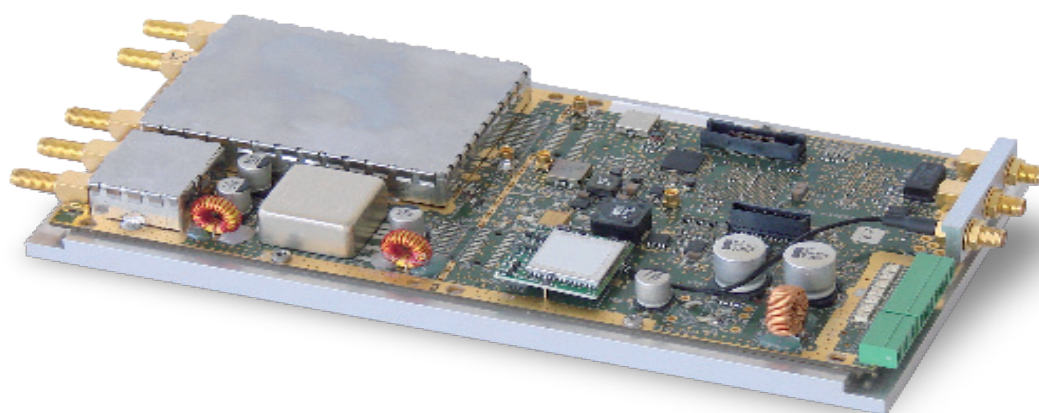


MAX-1000/2000

OEM Modulator

A compact OEM modulator dedicated for highly integrated and cost effective DVB-T/H transmitter applications.

- Cost effective solution
- Compact size
- High performance and reliability
- Onboard GPS



Key features :

- DVB-T/H full mode implementation
- Efficient stream input management for redundancy configurations
- Redundancy management (stream and synchronization)
- PID management for local service insertion
- MFN and SFN operation
- Optional onboard GPS
- Powerful Linear and Non-Linear digital pre-corrections circuits

Description

The MAX-1000/2000 consists of an easily integrated and high performance DVB-T/H digital modulator, specially designed for transmitter manufacturers who wish to develop the latest state-of-the-art LP (Low Power) transmitters in their product range. As the Digital Switch Over (DSO) plans are progressing in many countries, the demand for LP transmitters is increasing. Key requirements expressed by leading Broadcasters in choosing LP transmitters include price, compactness, performance and onboard features such as GPS.

Advanced features to secure SFN operating

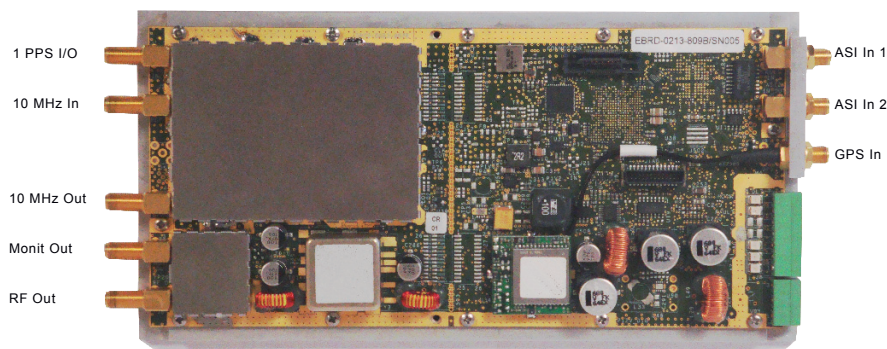
MAX-1000/2000 includes all the necessary clock and synchronisation mechanisms required to operate DVB-T/H transmissions in Single Frequency Mode (SFN) applications. Specific processes have been implemented to manage input stream redundancy switching as well as clock and time reference loss recovery, in the most flexible and efficient way. This provides the means for Broadcasters to maintain reliable Single Frequency Network (SFN) operation even after having detected stream or reference signal impairments (for example: missing MIP packet, timestamp error, loss of 1 PPS, etc.).

Performance & Reliability

The MAX-1000/2000 modules include all of the latest state of-the art technology for efficient digital modulation. They provide designers with best of class performance, including a high MER value and excellent shoulder levels for DVB signals. Simple to use non-linear digital pre-correction circuits are incorporated to provide precise compensation for the output filter and power amplifier characteristics.

MAX-1000/2000

OEM Modulator



MAX-2012

Specifications

Standards

- o DVB-T/H: EN 300 744, ETSI TS 101 191, EN 302 304
- o DVB-ASI: EN 50083-9, ETSI TR 101 891
- o MPEG-TS: ISO/IEC 13818-1

MPEG-TS Inputs

- o 2xASI SMA connectors, 75 Ω
- o 188/204 bytes, Packet/Burst mode - 50 Mbps maxi
- o MIP processing, bit rate adaptation and PCR re-stamping
- o PID management (monitoring, filtering, remapping and insertion)

IF/RF Output

- o IF from 30 to 45 MHz (MAX-1340)
- o RF from 30-900 MHz (MAX-2010/2012)
- o 1 x RF output: 0 dBm - SMA connector 50 Ω
- o Low level (-20 dB) output available for monitoring - SMA connector 50 Ω
- o Channel bandwidth: 5,6, 7 or 8 MHz

Clock&Synchronization

- o High quality internal clock
- o 10 MHz & 1 PPS external reference for SFN operation

- o Clock and time source redundancy management
- o Configurable 1 PPS input or output interface
- o 10 MHz output
- o Onboard GPS (MAX-2012), GPS/GLONASS (MAX-2013)

Digital Pre-correction

- o Linear and Non-Linear pre-correction (2x32 points- AM/AM and AM/PM)
- o Signal clipping (PAPR)

Control&Monitoring

- o RS-232 C & RS-485

Physical

- o Single supply voltage (12 VDC)
- o Power consumption: 18 W maxi
- o Board dimensions: 237 x 110 x 26 mm
- o Module dimensions: 237 x 110 x 35 mm (Optional size C)
- o Temperature range: 0° C to 50° C

1 Specifications are not contractual and are subject to revision without special warning.

Ordering Information

xTTM-MAX0-1340	DVB-T/H Modulator - 30 -45 MHz IF output
xTTM-MAX0-2010	DVB-T/H Modulator - RF output
xTTM-MAX0-2012	DVB-T/H Modulator - RF output and onboard GPS
xTTM-MAX0-2013	DVB-T/H Modulator - RF output and onboard GPS/GLONASS

*DVB is a registered trade mark of the DVB project

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