

# T-MOD

## A test modulator for all standards

The high performance modulator to generate test signals for:

- Laboratory experimentations
- Laboratory tests
- Chipset design
- Set top box productions
  
- High level of performances
- Meet all requirements



### Key features :

- All standards
- Frequency output range from 100MHz to 900 MHz
- Several inputs/outputs
- MFN and SFN operations
- Extremely high modulation performance

### Description

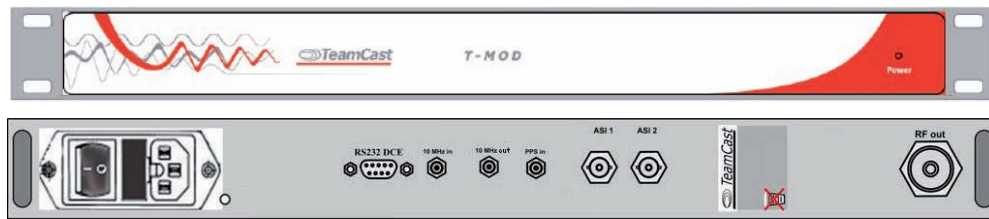
T-MOD is a range of test modulators which provides best of class signal performance for your tests. More widely, T-MOD addresses the applications and needs of all players in the R&D laboratories and manufacturers who need test signals.

### Performant & Future proof

T-Mod has been specially developed to provide test solutions for equipment designers, R&D laboratories designers, with a best of class performances and to exhibit a high MER value, excellent shoulder levels and lowest phase noise. It includes all the necessary clock and synchronization mechanisms required to operate Single Frequency mode (SFN). A comprehensive & intuitive control software suite is provided to configure and control the unit via RS232 connection. T-Mod consists of a standalone modulator in 1U Rack, with standard interfaces (ASI/ETI). It is capable of delivering a RF signal output over a wide frequency band from 100MHz up to 900MHz.

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### Specifications<sup>1</sup>

#### ■ ASI/ETI Stream Inputs (depending on the standard)

- o 2x Inputs
- o BNC connectors- 75 Ω

#### ■ RF Outputs

- o From 100 MHz up to 900 MHz
- o N connector - 50 Ω

#### ■ Clock and Synchronization

- o High quality internal clock (OCXO)
- o 10 MHz & 1 PPS inputs for SFN operation
- o 10 MHz output available

#### ■ Modulations/Standards

- o DAB/T-DMB
- o CMMB/DTMB
- o FLO™
- o DVB-T/H/

- o DVB-SH (SH OFDM and TDM)

- o ATSC

- o ISDB-T (Japanese DTV)/ISDB-T/T<sub>B</sub> (Brazilian DTV)

- o Common features

- o Test modes: PRBS, Spectrum-Gap and

- o Null symbol insertion

- o MFN and SFN network operation

- o High MER performance

#### ■ Control & Monitoring

- o RS232 control port with ASCII protocol

- o Delivered with control software suite

#### ■ Physical

- o Dimensions: 450 x 350 x 44 mm

- o Weight: 3.000 kg

- o Operating temperature range: 0 °C to 50 °C

- o Power supply: 90 to 240 VAC - 50 Hz - 100 W

### Ordering Information

Product references	Frequency portfolio
TMR-TMOD-DAB0 TMR-TMOD-DAB1	DAB/T-DMB modulator for tests : - 170 MHz to 240 MHz output frequency, 0 to -10 dBm output level - 1432 MHz to 1592 MHz output frequency, -10 to -20 dBm output level
TMR-TMOD-DVB-T	DVB-T modulator for tests : - 100 MHz to 900 MHz output frequency, 0 to -10 dBm output level
TMR-TMOD-MSH0 TMR-TMOD-MSH1 TMR-TMOD-MSH2	DVB-SH OFDM modulator for tests : - 100 MHz to 900 MHz output frequency, 0 to -10 dBm output level - 2170 MHz to 2200 MHz output frequency, -10 to -20 dBm output level - 2.4 GHz to 2.7 GHz output frequency, -10 to -20 dBm output level
TMR-TMOD-MDM1 TMR-TMOD-MDM2	DVB-SH TDM modulator for tests : - 2170 MHz to 2200 MHz output frequency, -10 to -20 dBm output level - 2400 MHz to 2700 MHz output frequency, -10 to -20 dBm output level
TMR-TMOD-MCX0	CMMB/DTMB modulator for tests : - 100 MHz to 900 MHz output frequency, 0 to -17 dBm output level
TMR-TMOD-MFL0	FLO AIS 2.0 modulator for tests : - 100 MHz to 900 MHz output frequency, 0 to -10 dBm output level
TMR-TMOD-MUS0	ATSC modulator for tests : - 100 MHz to 900 MHz output frequency, 0 to -10 dBm output level
TMR-TMOD-MIS0	ISDB-T/T <sub>B</sub> modulator for tests : - 100 MHz to 900 MHz output frequency, 0 to -10 dBm output level

<sup>1</sup> Specifications are not contractual and are subject to revision without notice.

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