

D-Mod T2

The unique demodulator for early testing and monitoring DVB-T2 signals:

- On-field signal demodulation
- Transmission signal performance checks
- R&D laboratory experiments

Real-time full demodulation

High performance monitoring

Professional form factor

Intuitive Interface

Key features :

- DVB-T2 full and real-time demodulation
- Multiplex transport stream output
- High level of MER measurement performance
- Monitoring features: input level, shoulders, MER, etc.
- Constellation and spectrum visualization
- Local or remote access over Ethernet
- Professional form factor (1-RU rack format)
- Remote control & monitoring by SNMP protocol

Test and Measurement

DVB-T2 Demodulator



Description

The D-Mod T2 is a first tool to measure and to monitor the RF signal quality of the DVB-T2, the second generation of terrestrial Digital TV standard.

D-Mod T2 gives the mean to measure the MER in real time: it is the key measurement to qualify a RF transmission signal. D-Mod T2 is fed either by a relatively high power level signal (Demodulation RF input) like the output of a modulator or a field type signal (Receiver RF input) whose level varies and can go low. A comprehensive & intuitive control software suite is provided and displays measurement traces, signal spectrum and constellation. It also permits to configure and control the unit via Ethernet local or remote connection. A SNMP control is also available.

Comprehensive DVB-T2 modulation monitoring

The D-Mod T2 can continuously monitor in real-time the essential signal performance figures such as input level, MER and shoulder levels. Useful to check the quality of the DVB-T2 signal in the time. The SNMP feature can be useful to elaborate a testbench to monitor the output of a modulator. User can select the Demodulation input to achieve high level of MER measurement. The D-Mod T2 output the received stream either over a standard TS over ASI interface or via IP Streaming to feed a external video/audio decoder or a TS stream analyser.

Performant & Future proof

D-Mod T2 addresses DVB-T2 product designer's request to have reference DVB-T2 demodulator. User can dispose a high quality tool either to help him to develop & debug its own modulator thank to the Demodulation input or to help him to discover the performances of the DVB-T2 standard. In that case, the receiving input is to be used to cope with on air transmission signal impairments (adjacent channels, signal fading, multi-paths, etc.).

D-Mod T2

DVB-T/T2 Demodulator

Connectors



Specifications¹

- **Supported Standards**
 - o DVB-T2: EN 302 755
 - o DVB-ASI EN50083-9, ETSI TR 101 891
 - o MPEG-TS ISO/IEC 13818-1
- **Demod Input**
 - o 1 x SMA - 50 Ω
 - o Input level: -15 dBm ±10 dB
 - o UHF from 470 MHz to 860 MHz
 - o Bandwidth: 5,6,7 or 8 MHz
- **Receiver Input**
 - o 1 x SMA - 50 Ω
 - o Input level: -90 dBm to -30 dBm
 - o RF from 50 MHz up to 800 MHz
 - o Bandwidth: 7 or 8 MHz
- **TS Stream Output**
 - o 1 x TS/ASI connector
 - o Format 188 bytes, Packet Mode, 55 Mbps max
 - o IP streaming interface
- **Measurement probes**
 - o Input level: -90 dBm to -30 dBm ±1dB
 - o Spectrum: 2048 to 4096 points displayed
 - o Shoulders: left & right 45 dB
 - o Constellation : 4096 points max displayed
 - o MER: up to 38 dB ±1 dB (Demod. Input)
 - o FER: Frame Error Rate monitoring
 - o LDPC: status, number of iterations monitoring
 - o Frequency Offset monitoring on demod input
- **Control & Monitoring**
 - o 2 x 10/100 base-T Ethernet port
 - o Delivered with control software suite/Touch Screen control
- **Physical**
 - o Dimensions: 450 x 500 x 44 mm
 - o Weight: 3.300 kg
 - o Operating temperature range: 0 °C to 50 °C
 - o Power supply: 90 to 240 VAC - 50 Hz - 100 W

Ordering Information

TMR-DMOD-BT20

DVB-T2 Demodulator rack with Demod UHF input and Receiver RF input.
Delivered with control software suite and Touch screen Control Unit

¹ Specifications are not contractual and are subject to revision without notice.

TeamCast Distributor:



MCS Test Equipment Ltd
Unit 5-6 Station Yard,
Llanrwst, Conwy,
North Wales,
LL26 0EH

Tel: 08453 62 63 65
Fax: 08453 62 36 16

Email: sales@mcs-testequipment.co.uk
Web: www.mcs-testequipment.co.uk