

DVB-T/H MODULATOR

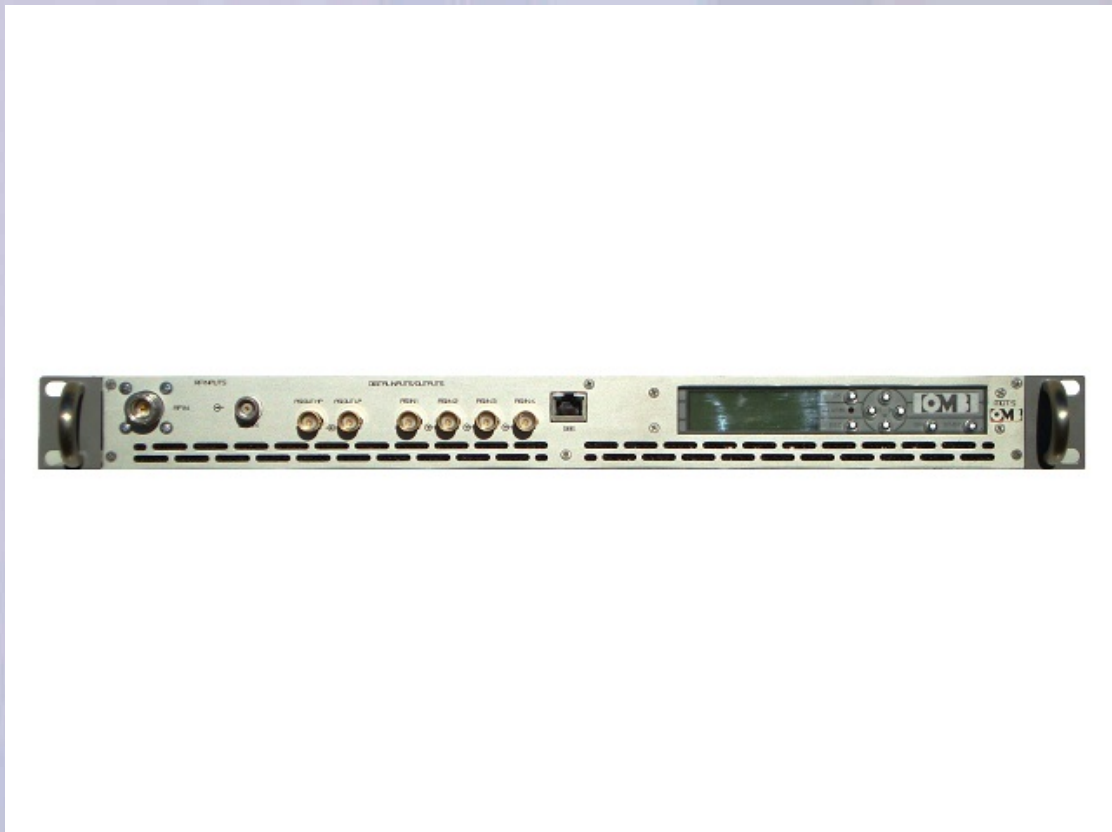
OMB **DVB-T/H** (Digital Video Broadcasting) **Modulator** provides a flexible and cost-effective solution to meet the most demanding requirements of today's digital Terrestrial Television Broadcasting. The quality of the coding and modulation, based on COFDM (*Coded Orthogonal Frequency Division Multiplexing*) technology, is the main characteristic of this amazing device. Furthermore, the modular design makes the unit highly flexible and the modulator is easily adaptable to provide the features required in an specific application.



(I+D)

3MOT S1500 YAV 3DIR SGP 2-R COM LIM3 MMS 412 MIX ONE100

DTP3 TX3000



TECHNICAL FEATURES

SIGNAL PROCESSING (EN 300 744)

IFFT 2K, 4K and 8K

GUARD INTERVAL 1/4, 1/8, 1/16 and 1/32

CODE RATE 1/2, 2/3, 3/4, 5/6 and 7/8

CONSTELLATION QPSK, 16-QAM and 64-QAM

HIERARCHICAL MODE (OPTIONAL) 16-QAM and 64-QAM with $\alpha = 1, 2, 4$

NETWORK MODE MFN /SFN

BANDWIDTH 8MHz and 7MHz (5/6MHz optional)

INPUTS

MPEG-2 2 ASI inputs

CONNECTORS BNC 75 Ω

CLOCK REFERENCE (CARRIER FREQUENCY AND SFN TIMING)

CONNECTOR BNC (50 Ω / >1K Ω adjustable)

FREQUENCY 10MHz

LEVEL 100mV - 3Vpp

TIME REFERENCE (SFN TIMING)

CONNECTOR BNC (50 Ω / >1K Ω adjustable)

FREQUENCY 1PPS

LEVEL TTL

OUTPUTS

IF (INTERMEDIATE FREQUENCY)

CONNECTOR BNC, 50 Ω

CENTRAL FREQUENCY 35~ 37MHz adjustable (step 1Hz)

FREQUENCY STABILITY 1ppm

SPECTRAL POLARITY Inverted / Non Inverted selectable

LEVEL +2 ~ -8dBm adjustable

STABILITY ± 0.2 dB

RETURN LOSS >26dB

HARMONICS AND SPURIOUS <60dB

MER ≥ 43 dB

RF (RADIOFREQUENCY)

CONNECTOR N Female, 50 Ω

CENTRAL FREQUENCY 30 ~ 1000MHz adjustable (1Hz step)

FREQUENCY STABILITY 1ppm

SPECTRAL POLARITY Inverted / Non Inverted selectable

LEVEL 0 ~ 37dBm adjustable

STABILITY ± 0.3 dB

RETURN LOSS >20dB

SHOULDERS LEVEL < -48dBc

HARMONICS AND SPURIOUS <-55dB

MER 45dB

POWER SUPPLY

VOLTAGE/FREQUENCY 90 ~ 264V_{AC} 47~ 63Hz

CONSUMPTION 45VA maximum

PRE-CORRECTION

NON-LINEAR CORRECTION GAIN CORRECTION: 12dB maximum

PHASE CORRECTION: -6 ~ +30

LINEAR CORRECTION AMPLITUDE CORRECTION: ± 10 dB

AMPLITUDE RESOLUTION: 0.01dB

GROUP DELAY CORRECTION: ± 1000 ns

GROUP DELAY RESOLUTION: 1ns

CONTROL INTERFACE

RS 232 INTERFACE 9-pin SUB-D Female connector

HW INTERFACE 9-pin SUB-D Female connector

ETHERNET RJ46 connector

ENVIRONMENTAL SPECIFICATIONS

OPERATING TEMPERATURE RANGE 0 to 50 $^{\circ}$ C

TEMPERATURE RANGE STORAGE -30 to 70 $^{\circ}$ C

OPERATING/STORAGE HUMIDITY 90% RH

MECHANICAL SPECIFICATIONS

CABINET 19" wide, 1RU high (483x44x483mm)

WEIGHT 6Kg (13.2lbs)

COOLING Natural convection

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