



Certif.n° Es01-022



Certif. n° Es01-E021

OMB EUROPA
Polígono Industrial Centrovía
Calle Paraguay, 6
50196 - La Muela
Zaragoza, ESPAÑA
Telf. : +34 976 14 17 17
Fax: +34 976 14 17 18
Web: <http://www.omb.com>
E-mail: europa@omb.com

OMB USA
3100 NW 72nd. Avenue Unit
112
MIAMI, Florida 33122 USA
Telf.: (305) 477 0973
(305) 477 0974
Fax: (305) 477 0611
Web: <http://www.omb.com>
E-mail: usa@omb.com

MOT 300 ATSC COMPACT



The **MOT 300 ATSC COMPACT** transmitter provides a cost-effective solution to meet the most demanding requirements of today's digital Terrestrial Television Broadcasting. It is made up of the **MOT 5 ATSC COMPACT** and the **S 300 ATSC** amplifier. Using the complete alarm and digitalized information systems of this transmitter, the user can control and visualize the most relevant parameters of the transmission: modulation (according to the ATSC standard) and amplification quality. Digital telemetry output is included, and critical or non-critical mask filter can be supplied.

The **MOT 5 ATSC COMPACT** includes a board that with a MPEG-2 encoder. It has analogue (PAL or NTSC) and digital (SDI) video inputs and also analogue (L+R) and digital (SDI signal embedded) audio inputs. Once the audio and video have been coded (MPEG-2) it takes place the 8VSB modulation according to the ATSC A/53, A/54 and A/64 standards. Then, the signal is converted to the desired channel and finally, it is amplified by an A-Class 5Wrms power amplifier.

This equipment is designed to transmit only one TV program in a channel, so it offers the advantage of a simple adaptation from analogue to digital emission. It is only necessary entering the equipment with the signals coming from the analogue microwave link and turn on the equipment to be "*on air*" transmitting in digital. Moreover an ASI Transport Stream input is available to be used.



Certif.n° Es01-022



Certif. n° Es01-E021

OMB EUROPA
Polígono Industrial Centrovía
Calle Paraguay, 6
50196 - La Muela
Zaragoza, ESPAÑA
Telf. : +34 976 14 17 17
Fax: +34 976 14 17 18
Web: <http://www.omb.com>
E-mail: europa@omb.com

OMB USA
3100 NW 72nd. Avenue Unit
112
MIAMI, Florida 33122 USA
Telf.: (305) 477 0973
(305) 477 0974
Fax: (305) 477 0611
Web: <http://www.omb.com>
E-mail: usa@omb.com

MOT 300 ATSC COMPACT TECHNICAL SPECIFICATIONS

POWER SUPPLY

VOLTAGE 90 ~ 264VAC

FREQUENCY 47 ~ 63Hz

TOTAL CONSUMPTION 1.9KVA average

MECHANICAL SPECIFICATIONS (WITHOUT RACK)

COOLING Forced air

DIMENSIONS 8UR on 19" standard rack (483 x 44 x 483mm)

WEIGHT 46Kg

MOT 5 ATSC COMPACT TECHNICAL SPECIFICATIONS

GENERAL PARAMETERS

FREQUENCY RANGE 470 ~ 862MHz

FINAL STAGE TECHNOLOGY LDMOS (A Class)

CONTROL INTERFACE Via RS-232 or via Ethernet

INPUTS

ANALOG VIDEO Compound video (optional RGB)
Connector: BNC Female

DIGITAL VIDEO SDI
Connector: BNC Female

ANALOG AUDIO Right/Left channel
Connectors: XLR Female

ASI INPUT Connector: BNC Female

ATSC MODULATOR

CHANNEL BANDWIDTH 6 MHz
8VSB (A/53, A/54 y A/64 standards)

RF OUTPUT

OUTPUT LEVEL 5W_{RMS}

CONNECTOR N Female

SHOULDER LEVEL < -36dBc

**SPURIOUS AND HARMONICS
LEVEL** < -60dB



Certif.n° Es01-022



Certif. n° Es01-E021

OMB EUROPA
Polígono Industrial Centrovía
Calle Paraguay, 6
50196 - La Muela
Zaragoza, ESPAÑA
Telf. : +34 976 14 17 17
Fax: +34 976 14 17 18
Web: <http://www.omb.com>
E-mail: europa@omb.com

OMB USA
3100 NW 72nd. Avenue Unit
112
MIAMI, Florida 33122 USA
Telf.: (305) 477 0973
(305) 477 0974
Fax: (305) 477 0611
Web: <http://www.omb.com>
E-mail: usa@omb.com

RF MONITOR OUTPUT CONNECTOR BNC Female

AMPLIFICATION STAGE TECHNICAL FEATURES

OUTPUT IMPEDANCE	50Ω
OUTPUT MONITOR CONENCTOR	BNC Female
OUTPUT MONITOR IMPEDANCE	50 Ω
SPURIOUS (WITH OUTPUT FILTER)	<-60dBc
HARMONICS (WITH OUTPUT FILTER)	<-60dBc
SHOULDER LEVEL	<-36dBc
MER	>36dB
OUTPUT POWER	300Wrms
CONTROL AND VISUALIZATION INTERFACES	
OUTPUT POWER CONTROL	Automatic or Manual
PARAMETER VISUALIZATION	On LCD display (output power, reflected power, amplifier voltage and current, temperature...)
RS-232 INTERFACE	Connector: 9-pin SUB-D Female
HW INTERFACE	Connector: 9-pin SUB-D Female
ETHERNET	RJ46