



Certif.n° Es01-022



Certif. n° Es01-E021

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MOT 600 ATSC COMPACT



The **MOT 600 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 600 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.



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MOT 600 ATSC COMPACT TECHNICAL SPECIFICATIONS

POWER SUPPLY

VOLTAGE 90 ~ 264VAC
FREQUENCY 47 ~ 63Hz
TOTAL CONSUMPTION 3KW 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



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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	600Wrms
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