

OMB - EM 100 DIG



The **EM 100 DIG** is a 100W FM transmitter, microprocessor controlled, that allow a lot of applications like power level control at night to save energy, and the whole monitoring and adjusting of several parameters of the equipment (input level, deviation). EM100DIG includes a high-efficiency amplifier and a restrictive 7-order filter.

The switching power supply allows stable output power with input voltages from 90 to 260VAC. EM 100 DIG can be supplied with an internal digital stereo generator board (60dB separation).

TECHNICAL FEATURES

AUDIO

T.H.D. Distortion (limiting threshold adjusted at 150kHz deviation)

75 KHz deviation <0.05% (typical 0.02%)

150 KHz deviation <0.2% (typical 0.05%)

stereo channels crosstalk (L / R) <-50dB (with external encoder)

audio input frequency response

30 Hz ~ 15 KHZ (pass band) ± 0.1 dB

f >19 KHZ (rejected band) -50dB

stereo input (MPX) frequency response ± 0.1 dB (10Hz ~ 100KHz)

aux input (SCA/RDS) frequency response ± 0.2 dB (10KHz ~ 100KHz)

input levels

Audio and MPX (AT ?75 KHz deviation) -3.5 ~ +12.5dBm adj.

SCA/RDS (?7.5 KHz deviation) -12 ~ +3.5dBm adj.

SCA/RDS (?2 KHz deviation) -24 ~ -8dBm adj.

input impedance

Audio and MPX 10K Ω balanced or 600 Ω unbalanced (selectable)

Auxiliar SCA/RDS 10K Ω

RF

RF output power 0 ~ 100W_{RMS} adj.

MAX. reflected power allowed 10W

harmonics <-70dBc

spurious <-80dBc (-95dBc typical)

output impedance 50 Ω (N Female Connector)

control and protection - Protection against spurious emissions

- Reflected power protection

- Power level automatic reduction at night

AC power supply 90 ~ 260V_{AC}, 50/60Hz

power consumption 322VA (100W RF)

temperature range -10 ~ 45°C

Dimensions 3RU (19" rack)

438 x 132 x 334mm without handles

weight 11Kg (24.2Lbs)

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