

EM 600 DAB MULTISTANDARD DIGITAL TRANSMITTER

The DAB transmitter **EM 600 DAB** has improved its digital adaptive precorrection and its configuration flexibility to meet all the digital radio international broadcasters' requirements. The power supplies are HOT PLUG as well as their configuration for maximum redundancy and easy and fast maintenance. In addition, the power supplies have >96% efficiency with wider input AC range capability.



MAIN ADVANTAGES

- Compact, flexible and easy to use in any DAB network.
- Built-in SFN adapter and very advanced Software Defined Transmitters Technology (SWDT©).
- EDI/ETI seamless switching with full FEC control tested.
- Typical MER>33dB at all power levels and channels with shoulders >37dB without filter.
- Very stable SFN network due to high quality local oscillator combined with embedded GPS built-in receiver.
- Remote control through built-in web server SNMP.
- Flexible configuration: dual drive, passive standby or N+1 available.
- DAB modes: I, II, III and IV.
- Network types: MFN, SFN.
- Bandwidth: 1.536MHz.
- Reference standard: ITU-T G703-G704, EN 300401, EN 300799, EN 302077-2.
- DAB signal input: ETI (NI) and EDI (encapsulation of DAB interface).
- Integrated GPS.
- Built-in high stability OCXO.
- Fully qualified for SFN, hitless input switching.
- EDI/ETI input switching without emission interruption.
- Integrated GbE interface.
- Adaptive linear digital pre-correction.
- Adaptive non-linear digital pre-correction with automatic curves loading for each channel and power.
- Fast protection circuits against direct/reflected power.
- Protection against reflected power with automatic fold back.
- Easy SW/FW update.
- Security Authentication for GUI access.
- Embedded MNSC analyser.

GENERAL CHARACTERISTICS

DIGITAL OUTPUT POWER (MER>33dB)	300W rms
FREQUENCY RANGE	VHF (Band III) 170-255MHz, in 1Hz steps. L-Band on request
AVAILABLE STANDARDS	DAB, DAB+, T-DMB (under request)
SHOULDERS (@Fo ±0.770 MHz DAB)	-37dB
OUTPUT CONNECTOR	7/8"
OVERAL EFFICIENCY	Up to 35% (Doherty)
AC LINE VOLTAGE	Single phase 47-63Hz (under request)
AC LINE VARIATIONS	±15%
POWER FACTOR	0.98
ALTITUDE	Max. 2500 metres above sea level (>2500m under request)
OPERATION TEMPERATURE	-10 to +45°C at sea level, upper limit derated of 2°C per 300m over 1000m above sea level
HUMIDITY	95%, non condensing
COOLING	Forced air
IMPEDANCE	50 Ohm
VSWR	Power reduction after exceeding the set value or switch off after three attempts
DIMMENSIONS	3 standard rack units of 19"
REFERENCE FREQUENCY	10MHz, 0.1-5V (Vpp) or TTL, BNC
REFERENCE PULSE	1pps (1Hz, TTL, BNC)
REMOTE CONTROL & MONITORIZATION	Web based Interface SNMP V2c (V3 under request) Telnet access via ethernet
LOCAL	Extensive front panel control (colour display and keypad) Local terminal on RS232 or LAN USB for upgrade
COMPLIANCE & CONFORMITY	RoHS: 2011/65/EC RED: 2014/53/EU Safety: EN 60215 EMC: EN 301-4891-1, ETSI EN 302 296-2 V1.2.1 (2011-5) WEEE: 2012/19/EU

NOTE: These transmitters have to be operated with suitable filters at the RF output, so as to meet the standards and limits for the suppression of out of band emissions.

** The images and/or technical specifications are subject to change without previous notice.*

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