



# EXC500/1000GX RFB500/1000GX FM TRANSMITTERS / FM AMPLIFIERS



The **EXC500/1000GX** are the new 500W and 1000W transmitters of the innovative GX version that update the consolidated transmitters and amplifiers of GT line, been around for several years and produced and sold in thousands of units.

Externally very similar to the previous **EXC500/1000GT**, the real differences are under the cover, mainly in the RF power section. The new basic amplifier modules gives 600W and 1200W with LDMOS transistors of the latest generation that has in fact allowed to increase the power while increasing the efficiency that now is close to 70%.

In addition to the beneficial influence on the cost of the electricity, we have less heating generation and therefore greater reliability.

With its 12 kg and compact dimensions in 2U, the transmitter is easy to transport and easy to install in any 19" rack. Many options are available on request. The most common are: the internal high quality stereo coder, the AES / EBU digital input, the remote control board via Ethernet allowing remote controlling from anywhere in the world (with devices like PC or mobile devices like smartphone), the remote control via GSM modem and RDS board.

The amplifiers **RFB500X** and **1000GX**, without the FM modulator and the internal driver, can be driven by any external exciter of small power such as our EXC30GT with power duly reduced to 6 and 13W.

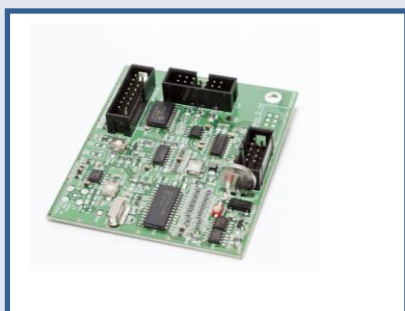
It meets or exceeds FCC or CCIR requirements.



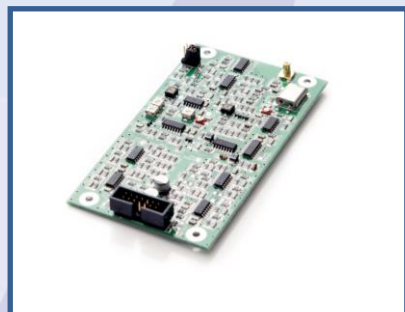
### OPTIONS



Web server – Web server + GSM



RDS



STEREO ENCODER

### TECHNICAL DATA

Frequency range		from 87,5 to 108 MHz
Transmitter tuning steps		10/100 KHz
Frequency stability / error		± 250Hz over temperature range – 100Hz/year
Modulation	FM	75 KHz peak, adjustable (180KF3E/256KF8E)
Audio and Mpx input level		from -3,5 to +12,5 dBm @ 75 KHz deviation
Auxiliary input channel level	SCA	from -12,5 to +3,5 dBm @ 7,5 KHz deviation
	RDS	from -24 to -8 dBm @ 2 KHz deviation
Modulation distortion	75 KHz dev.	<0.03%, 0.02% typical
S/N ratio, mono	30÷20000Hz	>76 dB, 83 typical
	CCIR	>75 dB, 79 typical
S/N ratio, stereo	30÷20000Hz	>72 dB, 77 typical
	CCIR	>68 dB, 72 typical
Audio channels frequency response	30÷15000 Hz	±0.1 dB
MPX input frequency response	30÷100000 Hz	±0.1 dB
Pre-emphasis time constant		0/50/75 µs selectable
Rated RF output power		500W (EXC500GX) / 1000W (EXC1000GX)
RF Driver power		6W/13W (RFB500/1000GX)
Output power ALC stability		±3%
Harmonic and spurious emissions		<70dB (harmonic), <80 dBc (spurious)
RF output connector		7/16"
Power supply	Single phase	230 Vac +10/-15%
	Three phase	N.A.
Total consumption at rated RF power		<1000W (EXC500GX) <1700W (EXC1000GX)
Efficiency		> 67% typical
Operative temperature range	suggested	from 0 to 35 °C
	extreme	from -10 to +45 °C (50°C max with derating)
Relative humidity		up to 95% not condensing
Dimensions (WxHxD)		483x88x585 mm
Weight		12kg

These data are subject of variations without notice

