



# EXC-RFB5000GX

## FM TRANSMITTER / FM AMPLIFIER



The **EXC5000GX** is the new 5000W transmitter of the innovative GX version that updates the consolidated transmitters and amplifiers of GT line that has been around for several years and was produced and sold in thousands of units.

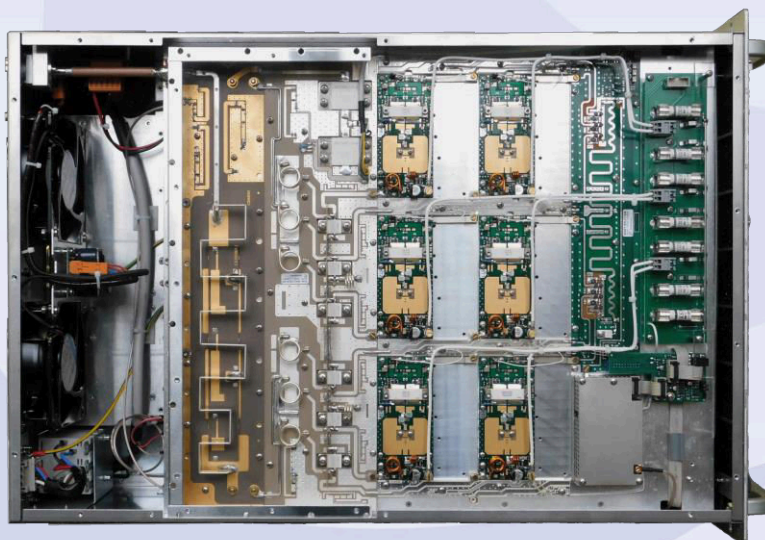
With its 33 kg and compact dimensions in 4U (the first in the world), the transmitter is easy to transport and easy to install in any 19" rack. The new basic amplifier module gives 1200W with LDMOS transistors of the latest generation that has in fact allowed to increase the power while increasing the 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.

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 **RFB5000GX**, 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 4W.

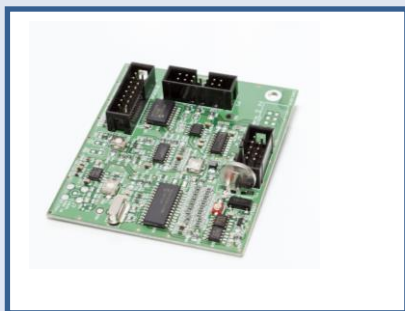
It meets or exceeds FCC or CCIR requirements.



### 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
	30÷20000Hz	>76 dB, 83 typical
S/N ratio, mono	CCIR	>75 dB, 79 typical
	30÷20000Hz	>72 dB, 77 typical
S/N ratio, stereo	CCIR	>68 dB, 72 typical
	30÷15000 Hz	±0.1 dB
Audio channels frequency response	30÷100000 Hz	±0.1 dB
MPX input frequency response		0/50/75 µs selectable
Pre-emphasis time constant		5000W
Rated RF output power		4W, 5W max (RFB5000GX)
RF Driver power		±3%
Output power ALC stability		<70dB (harmonic), <80 dB (spurious)
Harmonic and spurious emissions		7/8"
RF output connector		
Power supply	Single phase	230 Vac +10/-15%
	Three phase	230 Vac +10/-15% without neutral line 400 Vac +10/-15% with neutral line
Total consumption at rated RF power		<7400W
Efficiency		> 68% 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)		483x177x650 mm
Weight		33kg EXC5000GX

Note: These data are subject of variations without notice.

