



# EXC1600GX RFB1600GX FM TRANSMITTERS / FM AMPLIFIERS



The **EXC1600GX** is a new 1600W transmitter in the innovative GX line that updates the consolidated and renowned -GT line, been around for several years, produced and sold in thousands of units all around the world.

Externally identical to the previous EXC1500GT and to the smaller current EXC600/1000GX, the real differences are under the cover, mainly in the RF power section. In fact it incorporates a RF 2kW core with LDMOS transistors of the latest generation and a powerful power supply regulator that allowed to increase the power and the efficiency, now is close and above 70% while retaining a distinct power reserve over the nominal value.

In addition to the beneficial influence on the electricity bill for the added efficiency, less heat is produced therefore achieving greater reliability.

With its 16 kg and compact dimensions in 2U, as the much smaller 600 end 1000W companions, this transmitter is easy to transport and to install in any 19" rack. Many options are available on request as usual. The most common are: the internal high quality stereo coder, the AES / EBU digital input, the Ethernet remote-control board which allows remote control and monitoring from anywhere in the world with fixed PC or mobile devices like smartphones, the remote control via GSM modem and an RDS generator board.

The amplifiers **RFB1600GX**, without the FM modulator and the internal driver, can be driven by any small power external exciter, such as our EXC30GT, with power duly reduced to 20W.

CE latest version compliant, It meets or exceeds FCC or CCIR requirements.

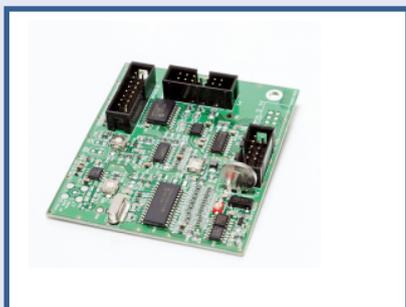


## FM TRANSMITTERS / FM AMPLIFIERS

### 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		1600W
RF Driver power (amplifier only)		20W
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		2300W
Efficiency		> 71% 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		16kg

Note: These data are subject of variations without notice