



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.

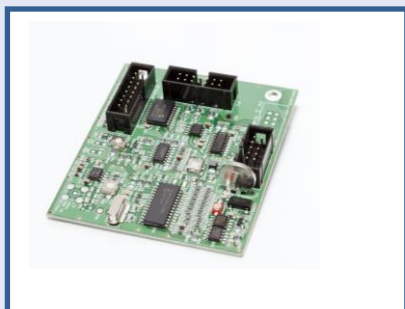
It meets or exceeds FCC or CCIR requirements.



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

