

# XA1000

## 1000W FM Amplifier

The XA1000 is a very high specification FM power amplifier that uses the latest design and construction techniques, to provide high performance, excellent control/ monitoring and maintenance free use in only 3U and 23kg.

### Monitoring & Control

The front panel LCD display shows forward and reflected power together with internal voltages, and temperature's. Quick view LED's show advanced status information including CPU ok, system normal and external mute. The rear panel includes a remote control/monitoring socket that allows carrier muting and status signalling to an external system. Optional TCP/IP or RS232 interfaces are available.



### Build

The XA1000 is a wideband design requiring no tuning and offers very easy installation. Versions of the XA1000 are available with 1 or 2 hot pluggable, front panel mounted, high specification switching type power supplies. These are telecom standard units with a proven track record of high reliability in harsh and hostile environments. The two PSU version provides 100% power supply redundancy. Conservatively rated components combined with switch mode power supplies ensures high reliability and good efficiency. In common with EBL's entire power amplifier range the XA1000 uses EBL's world renowned heat dissipating "fresh-air-tunnel" concept with dual fans. The fans provide cooling to the specially designed heat sink with a stream of air that needs no filtering saving on routine filter replacements. Minimal active components are in the air flow thus keeping sensitive areas free from dust and contaminants.

### Specifications

Frequency range	87.5 to 108MHz
RF Interfaces	50 ohm nominal. Input N type (f), Output 7/8" EIA or 7/16 DIN (f), Monitor BNC socket.
Power output	250W to 1kW (adjustable)
Input drive level	RF Input from Exciter/Drive supplied:- 15 to 20W
Output Power Variation	Not more than $\pm 0.5$ dB under all specified operating conditions
Spurious emissions	< -76dBc (9kHz to 1GHz)
Power supply (AC)	110 - 260v, 47 - 63Hz
Temperature (operating)	0 to 45°C
Humidity (operating)	< 95% RH, non condensing
Dimensions	3U with 570mm intrusion to rack (exc. RF output connector)
Specification subject to change	

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