



# micomRM1200

## 1200 Watt Power Amplifier

Designed to work with Micom HF radio transceivers, the MicomRM1200 power amplifier delivers the most reliable radio communications for a wide range of operational applications.

With its strict precision design, the fully solid-state amplifier features the latest and most advanced technology, providing exceptional linearity, efficiency and operating dependability for HF radio voice and data communications.



### Specifications:

#### Electrical

Power output: 1200 W PEP  
 1000 W average  
 ( $\pm 0.5$  dB) into 1.5:1 VSWR  
 4:1 VSWR - min 50% power

Frequency range: 1.6–30 MHz

Power input: 20 Watts nominal (0 dBm option)

Harmonic emission: -60 dBc

Frequency switching: Tuning process (100 msecO  
 max between switching channels)

Input impedance: 50 Ohm

T/R switching: 10 msec maximum

R/T switching: 10 msec maximum

Rx bypass mode: Rx/Tx switch, active at receive

#### Environmental

Temperature: -10°C to +60°C

Humidity: 95% @ 50°C

Input RF: N type connector

Output RF: N type connector

Control/Monitor: D type 25 pins connector (including  
 PTT, BIT, VSWR, Incident power,  
 Tune mode, on/off)

#### Features

19 inch rack mountable

Supply AC voltage: 90–264 VAC, 47–63% (single phase)

Redundancy: power supply (2 modules)  
 2 Amplifiers 600 each  
 125 Watt from the micom

Automatic bypass backup

Manual bypass selection

Automatic step-down power levels

### The micomRM1200 power amplifier provides users with essential benefits and features

#### Maximum durability and communication reliability

- Conservatively rated circuits deliver full power, hour after hour, for voice, CW and data (RTTY, ARQ, PACKET) service.
- The amplifier circuitry is designed for the rapid switching inherent in ARQ operation. Reliability of ARQ systems is further improved by the stronger signal from a 1 KW amplifier.
- 100% solid state, modular design—MOS-FET power transistors in interchangeable and field replaceable 300 modules—consumes less power than tube amplifiers and allows for easy servicing.
- Antenna mismatch protection prevents amplifier damage and spurious energy in case of an extreme antenna mismatch.
- With Failsoft operation, dual power supplies and parallel amplifier modules maintain operation at reduced power even in the unlikely event of total failure, allowing uninterrupted communications.
- Built-in protective circuitry ensure amplifier is not damaged during abnormal conditions.

#### Options

- Rack 19"
- 18 DBB1 for interface with other radio ercitek - ????

#### User-friendliness

- Full compatibility with all Micom radios allows maximum flexibility in systems designs. Amplifier can also operate with an existing system.
- Broadband design provides fully automatic tuning and adjustments.
- Current and Power meters allow for easy monitoring.
- Remote control panel offers convenient amplifier operating and control.
- Controller board incorporating a 16-bit micro-processor centralizes all sensory status information and controls the amplifier's band selection, autotuner operation, maintenance and protective functions.
- Built-in-Test Equipment for exceptional amplifier dependability.

#### BITE RS232 interface protection

- Amplifier module current imbalance
- Out-of-band frequency input
- Short and Open RF output
- Input overdrive • Over-current
- Under voltage# • High temperature
- High VSWR

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 best radio for worst events

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1200W POWER AMPLIFIER

*Exceptional transmission purity and  
stability for highly reliable  
HF communications*