

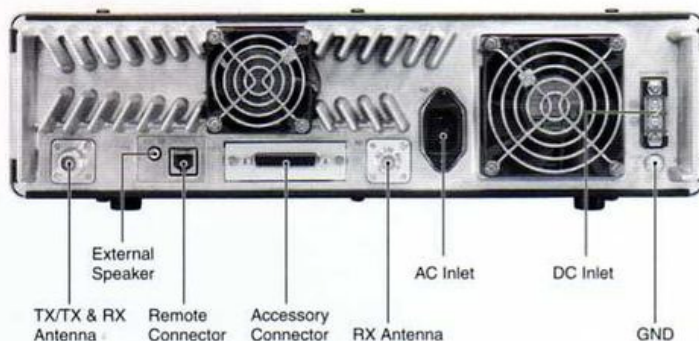
Installation of a server rack in a data center.

## ADDITIONAL FEATURES

- Master/Slave backup operation by connecting two repeaters
- Self check function checks for internal errors and alerts with a beep sound or with a phone call
- Accessory connector (D-sub 25-pin) on the rear panel for trunking controller including LTR, PassPort, SmarTrunkII and MPT1327
- Compatible with VEGA tone remote control system
- 5-Tone relay function
- Optional Voice Scrambler UT-109 or UT-110
- CW ID transmitter (DTMF or 5-Tone also selectable)
- Password and kill/stun function for security
- 16-digit alphanumeric display convenient for base station operation
- A programmable button gives access to a customized function

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## REAR VIEW



## SPECIFICATIONS

### GENERAL

- Frequency coverage : IC-FR3000 148–172MHz, 150–174MHz  
IC-FR4000 400–430MHz, 430–450MHz, 450–480MHz
- Number of channels : 32 channels
- Channel spacing : 12.5/25kHz
- PLL channel step : 5, 6.25kHz  
(2.5kHz, VHF repeater operation only)
- Frequency stability : IC-FR3000 ±2.5ppm  
IC-FR4000 ±1.5ppm (U.S.A. version)  
±2.5ppm (Other versions)
- Operating temperature range : -30°C to +60°C; -22°F to +140°F
- Power supply voltage : 100–120V AC (50/60Hz), 220–240V AC (50/60Hz)  
13.6V DC
- Current drain (at 13.6V DC) : TX IC-FR3000 (at 50W) 15A  
IC-FR4000 (at 50W) 20A  
RX Max. audio 2A typ.  
Stand-by 1A typ.
- Antenna impedance : 50Ω (Type-N × 2)
- Dimensions (W×H×D) : 410 × 110 × 360 mm; 16<sup>5</sup>/<sub>32</sub> × 4<sup>11</sup>/<sub>32</sub> × 14<sup>9</sup>/<sub>16</sub> in
- Weight : 12kg; 26.4lb (approx.)

### TRANSMITTER

- Output power : 50W (high), 10W (low) selectable (at 13.6V DC)
- Max. frequency deviation : ±5.0kHz (wide) ±2.5kHz (narrow)
- Spurious emissions : 70dB
- Adjacent channel power : 70dB (wide) 60dB (narrow)
- Hum and noise : 40dB (wide) 34dB (narrow)
- Microphone impedance : 600Ω (8-pin modular)

### RECEIVER

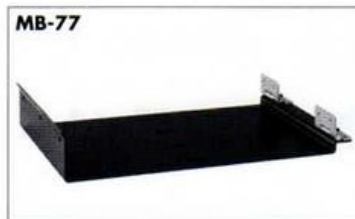
- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Adjacent channel selectivity : 70dB (wide) 60dB (narrow)
- Spurious response : 70dB
- Intermodulation rejection ratio : 70dB
- Hum and noise ratio : 40dB (wide) 34dB (narrow)
- Audio output power : 2.5W typ. at 10% distortion with a 4Ω load
- External speaker connector : 2-conductor 3.5 (d) mm (1/8")/4Ω

Measurements made in accordance with EIA/TIA-603-A. Compatibility of functions for use with a telephone line may not work in some countries. All stated specifications are subject to change without notice or obligation.

## OPTIONS

- **MB-77 WALL MOUNT BRACKET**  
For mounting the repeater on a wall. Hinges provide easy maintenance while mounted.
- **MB-78 19" RACK MOUNT BRACKET**  
The 19 inch rack mount bracket is 3U height (133.5mm; 5<sup>1</sup>/<sub>4</sub> in).
- **HM-100N HAND MICROPHONE**
- **HM-100TN DTMF MICROPHONE**
- **SM-25 DESKTOP MICROPHONE**  
Convenient for dispatching. Equipped with a monitor switch.

- **UT-109 VOICE SCRAMBLER UNIT** (Version 01)  
Provides operating security. Up to 32 non-rolling scrambling codes are available.
- **UT-110 VOICE SCRAMBLER UNIT** (Version 01)  
Up to 1020 (255 codes × 4 groups) rolling scrambling codes are available. Ask your dealer for details.



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