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## TRB9200 Series

Professional Base Station Repeaters



The TRB9200 series advanced design uses the latest technology to achieve superior performance in high RF environments.

A versatile compact lightweight transceiver housed in a 2RU fully welded steel case provides outstanding reliability under the harshest conditions.

- Covers frequencies between 30MHz to 960MHz.
- Ideal for trunking, paging, cross band link, repeater and simulcast applications.
- Networking function permits multistation monitoring and control through a single RS232 port.
- Versatile configuration via fitting of numerous option boards provides a cost effective solution.
- Optional interface card for Voice Over Internet Protocol (VoIP).
- Low current consumption option available for solar site application.
- Non-predictive CTCSS decoder.
- Channel scan function and base morse ID.
- Full Duplex DCS/DPL operation option.
- Optional internally mounted changeover relay.
- Optional Glide tone voting.
- Solid construction providing a high degree of RFI and EMI screening.
- Designed and manufactured in Australia.



TRB9200

## SPECIFICATIONS

### General Specifications

Channel Bandwidth	12.5kHz or 25kHz
Modulation	Direct FM two-point method
Frequency Bands	30–50MHz 66–88MHz 135–532MHz (19 sub-bands) 746–794MHz 805–960MHz
Standby current consumption	<460mA @ 13.8V DC
Temperature	-10°C to +60°C
Antenna Connector	N-Type Female (Tx), BNC Female (Rx)
Inputs/Outputs	Digital 2 x 8 bit input, 1x 8 bit output (DB25F)  Line interface (DB15F)  Monitor functions (DB9F)  RS232 serial connection (DB9M)
Supply Voltage	13.8V DC ± 20%
Dimensions	89mm (2RU) High x 483mm Wide x 330mm Deep
Weight	<9 kg

### Transmitter Specifications

Transmit Power	5W to 50W (30–520MHz) 5W to 35W (800–960MHz)
Tx Current Consumption	<11A for 50W @ 13.8V DC
Duty Cycle	100%
Frequency Stability	1.5ppm (std) UHF, 2.5ppm VHF 20ppm VHF-low, 1.0ppm opt 800MHz
Audio Distortion	<2% @ 60% deviation
Audio Response	300Hz to 3000Hz (+1, -3dB)
Audio Input Level	+6 to -15dBm into 600Ω line
Intermodulation	>40dB
Hum and Noise	>44dB (12.5KHz)
Transmit Rise Time	4mS with continuous VCO selected

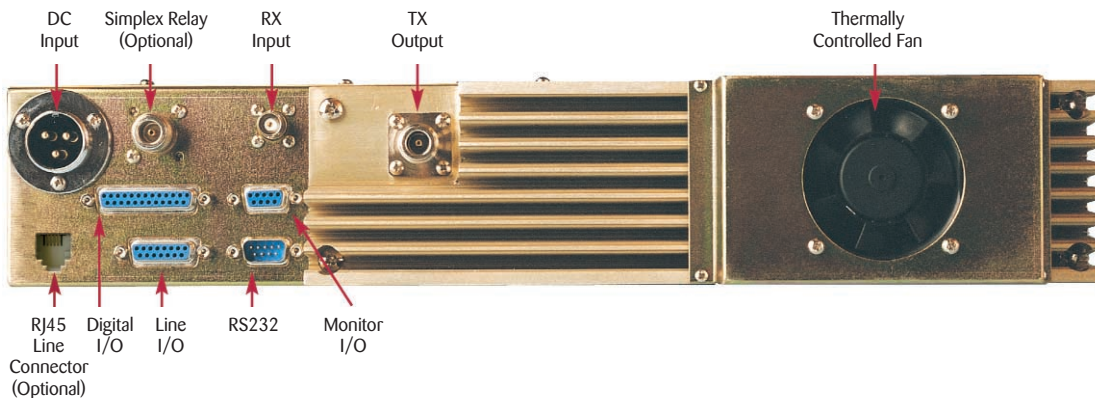
### Receiver Specifications

Sensitivity	12dB SINAD for 0.3μVpd (25kHz spacing)
Rx Current Consumption	Typical: 460mA Max: 600mA
Selectivity	>75dB (25kHz), >65dB (12.5kHz)
Intermodulation	>80dB
Audio Response	300Hz to 3000Hz (+1, -3dB)
Audio Output Level	+6 to -15dBm into 600Ω Line,
Distortion	<2% @ 60% deviation
Blocking	>100dB @ ±1MHz point
Hum and Noise	>44dB (12.5KHz)

### TRB9200 Series Model Variants

TRB9210	Basic model with fixed channel operation
TRB9220	Multi channel operation with channel selector and monitor speaker mounted on front panel
TRB9230	As per TRB9220 but with a programmable system option board, which enables features such as Tone Keying, Race, Omnibus and Glide tone RSSI voting.

### TRB9200 Rear View



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