



RRD-1100 Series

*Narrow Band Capable Radio Kit
for Wabtec EN, ES, 07 & 09*

All radios are delivered in narrow band mode that is compliant with the FCC reforming mandate. Superb radio sensitivity permits these radios in narrow band mode to be fully interoperational with existing legacy wide band equipment as delivered. A complete line of replacement parts, programming cables and software together with Operating and Maintenance Manuals are available. One year manufacturer's warranty is standard; 2 and 3 year extended warranties are available. Call for details.

Features & Benefits

- Direct replacement, plug and play units
- Software programmable for 12.5kHz narrow or 25kHz wide band.
- Supports 8 Programmable Channels
- Channels are PC selectable for TX deviation.
- Low standby current draw (<23mA @ 12.5Vdc).
- Selectable power settings.
- Low TX current draw (<1.8A @ 8W @ 12.5Vdc).
- 20MHz TX/RX bandwidth.
- 450-470 MHz frequency range.

- Fast TX & RX attack times.
- Closed-loop RF power control.
- Meets all FCC and IC Canada standards.
- Designed and manufactured in the USA.
- All electronic settings are software programmable.
- No on-board or hardware adjustments are required.
- Both low & high power are programmable; factory delivered at 2 and 8 Watts respectively.
- Designed and manufactured in the USA.

Key Accessories and Replacement Parts



RRD-1220
Complete programming and testing interface; RRD-1000(M), 1015(M), 1020(M), 1025, 1100 and 1140 Series radios, Quantum ETD and HTD radios, plus JSLM and RNET 15 pin radios. Includes all coaxial cables and test harnesses. Individual programming harnesses and software sold separately.



RRD-1210
Programming interface; RRD-1000(M), 1015(M), 1020(M), 1025, 1100 and 1140 Series radios, Quantum ETD and HTD radios, plus JSLM and RNET 15 pin radios. Individual programming harnesses and software sold separately.



RRD-1101
EOT to RRD-1100 Radio Replacement Harness Wabtec EN, ES, 07, 09 TrainLink II EOT



RRD-1105
ISA adapter harness with programming plug; RRD-1100 Series radios. Length: 12 inches.



RRD-1102
Replacement RF Cable for RRD-1100 EOT Radio Mlni-UHF/f-bh + MCX/m-ra; Length: 7 inches

RRD-1006 (No Photo)
Programming software for RRD-1000(M), 1015(M), 1020(M) and 1025 Series radios.

RRD-1008 (No Photo)
Maintenance & Operating Manual; RRD-1000(M), 1015(M), 1020(M), and 1025 Series radios. (Ritron DTX-Plus Series).

GENERAL SPECIFICATIONS

Frequency Range: 450-470MHz
 RF Channels: 8 Independent TX/RX frequencies
 Synthesizer Step Size: 5 kHz
 Frequency Stability: +/-1.5 PPM (-30 to +50 C)
 Power Supply: 9 -17 Vdc
 Standby Battery Drain: 23mA @ 12.5Vdc

TRANSMITTER SPECIFICATIONS

RF Power Output: 2.0W @ 12.5Vdc, (<0.9A)
 8.0W @ 12.5Vdc (<1.8A)
 10.0W @ 12.5Vdc (<1.8A)
 Deviation: +/- 2.5kHz
 Transmit attack time: < 10ms
 FM Hum and Noise: -40 dB
 Audio Distortion: < 5 %
 Spurious / Harmonics: < -25 dBm
 Aux In freq response: 8-2500Hz @ +/-3 dB

RECEIVER SPECIFICATIONS

Sensitivity: 0.25 µV (12 dB SINAD)
 Receiver attack time: < 10 ms
 Noise/squelch attack: < 15 ms
 RSSI/squelch attack: < 5 ms
 RSSI squelch sensitivity: default: -106 dBm (software adjustable)
 Noise squelch sensitivity: default: 12 dB SINAD@ 3 kHz dev. (software adjustable)
 AUX OUT freq response: 12-2500 Hz @ +1 / -3 dB
 Audio Output: >700mW @ into 8 Ohms w/< 5 % THD

Bandwidth:	Wide (25kHz)	Narrow (12.5kHz)
Adjacent channel:	-67 dB	-60 dB
Spurious rejection:	-70 dB	-70 dB
Image rejection:	-75 dB	-75 dB
Intermodulation:	-67 dB	-67 dB
FM hum and noise:	-43 dB	-37 dB
Conducted spurious:	-57 dB	-57 dB



Tel: 888-303-7245

