

RRD-1140 Series Narrow Band Capable Radio Kit for Wabtec 2360 NextGen EOT

All radios are delivered in narrow band mode that is compliant with the FCC refarming 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: 12.5kHz narrow or 25kHz wide band.
- · Both low & high power are selectable; factory delivered at 2 and 5 Watts respectively.
- 450-470 MHz frequency range.
- Frequency stability standard @ 1.5 ppm for fixed applications.
- Ultra fast TX/RX attack times.

- Controlled EnvelopeSM TX keying.
- Meets FCC and IC Canada standards.
- · Electronic configuration settings are selectable.
- Selectable high/low output power.
- SMD component design.
- · 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.

GENERAL SPECIFICATIONS

Frequency Range: Number of Channels: TX/RX Spacing: Mode of Operation: Channel Increment Emissions Bandwidth: Frequency Stability: Supply Voltage: Operating Temp:

450-470MHz 20 MHz max (w/in frequency range): Simplex or Half Duplex 5-6.25kHz (Synthesizer step size) 11kHz Narrow Mode; 16kHz Wide Mode 1.5 ppm (-30°C / +65°C) 11.5 - 15 Vdc (10 watt version) -30°C / +65°C

At MIC IN; 50-2500Hz (ref pre-emphasis curve)

TRANSMITTER SPECIFICATIONS 20 MHz

Operating Bandwidth: RF Output Power: RF Load Impedance: Audio Distortion: Modulation Freq Resp:

Transmit Attack Time: Spurious / Harmonics: FM Hum and Noise: Current Drain:

At AUX IN; 50-2700Hz (w/o pre-emphasis) 15 ms -20dBm 40dB (12.5kHz channel); 45dB (25 kHz channel) 1.0 A @1W; 2.4 A @ 6W; 2.4 A @10W (13.7Vdc supply) 1. 1/1/1

+1/-3dB ref 1 kHz)

1-10 watts

50 ohms

5% max



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-1145 Adapter harness; RRD-1140 Series radio. Length: 12 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).

RECEIVER SPECIFICATIONS 20 MHz

Operating Bandwidth: Sensitivity: RF Input Impedance: Adj Channel Selectivity:

Spurious/Image Reject: Intermodulation Reject: FM Hum and Noise: Conducted Spurious: Receive Attack Time: Noise/Squelch Attack: RSSI Squelch Attack Audio Distortion: Audio Resp-AUX OUT:

0.28 uV (12 SINAD w de-emphasis) 50 ohms 60 dB (+/-12.5kHz w/narrow IF) 70 dB (+/- 25kHz w/wide IF) 70 dB 70 dB 40dB (12.5kHz channel); 45dB (25kHz channel) -57 dBm 15ms 13ms 5ms 100Hz-3.5kHz (12.5kHz channel) 100 Hz-5kHz (25kHz channel) Receive Current Drain: 75 mA





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