



RRD-1025 Series

*Narrow Band Capable Radio Kit
for US&S HTD Model 6656*

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 radio.
- Software programmable for 12.5kHz narrow or 25kHz wide band.
- Both low & high power are programmable; factory delivered at 2 and 8 Watts respectively.
- Upgraded from OEM standard 2 Watts / 2 Watts to new FCC standard 2 Watts / 8 Watts.
- 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 settings and adjustments are software programmable.
- No on-board or hardware adjustments are required.
- Programmable high/low output power.
- SMD component design.
- Designed and manufactured in the USA.

Other models are available to fit all US&S and Wabtec Next-Gen enclosures and parameters.

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-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).

RRD-1029 (No Photo)
Mount kit for RRD-1025 radios.

GENERAL SPECIFICATIONS

Frequency Range: 450-470MHz
 Number of Channels: 8
 TX/RX Spacing: 20 MHz max (w/in frequency range):
 Mode of Operation: Simplex or Half Duplex
 Channel Increment: 5-6.25kHz (Synthesizer step size)
 Emissions Bandwidth: 11kHz Narrow Mode; 16kHz Wide Mode
 Frequency Stability: 1.5 ppm (-30°C / +65°C)
 Supply Voltage: 11.5 - 15 Vdc (10 watt version)
 Operating Temp: -30°C / +65°C

TRANSMITTER SPECIFICATIONS

Operating Bandwidth: 20 MHz
 RF Output Power: 1-10 watts
 RF Load Impedance: 50 ohms
 Audio Distortion: 5% max
 Modulation Freq Resp: +1/-3dB ref 1 kHz
 At MIC IN; 50-2500Hz (ref pre-emphasis curve)
 At AUX IN; 50-2700Hz (w/o pre-emphasis)
 Transmit Attack Time: 15 ms
 Spurious / Harmonics: -20dBm
 FM Hum and Noise: 40dB (12.5kHz channel); 45dB (25 kHz channel)
 Current Drain: 1.0 A @1W; 2.4 A @ 6W; 2.4 A @10W (13.7Vdc supply)

RECEIVER SPECIFICATIONS

Operating Bandwidth: 20 MHz
 Sensitivity: 0.28 uV (12 SINAD w de-emphasis)
 RF Input Impedance: 50 ohms
 Adj Channel Selectivity: 60 dB (+/-12.5kHz w/narrow IF)
 70 dB (+/- 25kHz w/wide IF)
 Spurious/Image Reject: 70 dB
 Intermodulation Reject: 70 dB
 FM Hum and Noise: 40dB (12.5kHz channel); 45dB (25kHz channel)
 Conducted Spurious: -57 dBm
 Receive Attack Time: 15ms
 Noise/Squelch Attack: 13ms
 RSSI Squelch Attack: 5ms
 Audio Distortion: 5%
 Audio Resp-AUX OUT: 100Hz-3.5kHz (12.5kHz channel)
 100 Hz-5kHz (25kHz channel)
 Receive Current Drain: 75 mA



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