

Specifications

Input

Isolated 72 VDC or 36 VDC
Non-isolated 13.4 VDC (recommended
for test only)

Frequency Range

148 to 174 MHz

Channel Capability

256 channels (programmable in
1- to 20-user groups)

Frequency Stability

+ 2PPM (-22°F/-30°C to +140°F/+60°C)

Operating Temperature

Minimum: -22°F (-30°C)
Maximum: +140°F (+60°C)

Transmitter

RF power: 10 to 45 watts (VHF)
Spurious response: 80 dB
FM hum and noise: 50 dB
Microphone impedance: 600 ohms with
DC bias
Microphone sensitivity: .30 VRMS (typical)
Audio distortion: < 2% @ standard
deviation

Receiver

Impedance: 50 ohms
Sensitivity: .25 uV (12 dB SiNAD)
Selectivity: 85 dB @ 30KHz (wide band)
80 dB @ 15 KHz (narrow band)
Intermodulation: 80 dB (wide 30 KHz)
75 dB (narrow 15 KHz)
Spurious and images: 90 dB
Audio outputs:
Internal and accessory speaker: 12 W
into 4 ohms @ <3% distortion
Handset and remote: 250 mV into
150 ohms @ <3% distortion
8 ohm remote: 10 W into grounded
8 ohm speaker @ <5% distortion.

Weight

15 pounds (6.8 kg) maximum

Dimensions

Length: 9.5 in (241.3 mm)
Width: 11 in (279.4 mm)
Height: 4.625 in (117.5 mm)

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Remote Applications

The 12R Series II is also available in single- or dual-control version as a serial remote radio with the same features and functionality. This radio does not have a front panel and requires one or two remote control heads for operation.

The 12R Series II RC for transit rail is intended for remote control applications where control is by standard AAR format. It contains AAR-compatible connectors and pin assignments for universal remote control system interface.



imagination at work

GE 12R Series II Radios are designed with state-of-the-art technology to provide onboard voice and data communications for freight and transit rail operation. The 12R Series II is fully compliant with the FCC mandate for narrow band operation by January 1, 2013. The radios facilitate dispatch-to-train communications, offering wide band operation today with narrow band operation tomorrow.

A 1200/2400-baud modem is integrated into the 12R Series II.

The rugged, single-piece chassis is simple to install. The radio's open architecture allows for future expansion.

Easily maintained, the 12R Series II has a 30-minute MTTR (mean time to repair).

12R Series II Radios

Competitive Edge on Performance, Cost, and Reliability



The 12R Series II RC (remote control) radio is fully compatible with AAR 12-10 standards. A 12MT-1 adapter allows for install on existing AAR mounting bases.



The 12R Series II SR radio provides for radio control using one or two remote control heads. Its compact design makes it ideal for control cabs that have limited space. The control head 12R Series II CH can also be used as a second control unit on the 12R Series II LC radio.



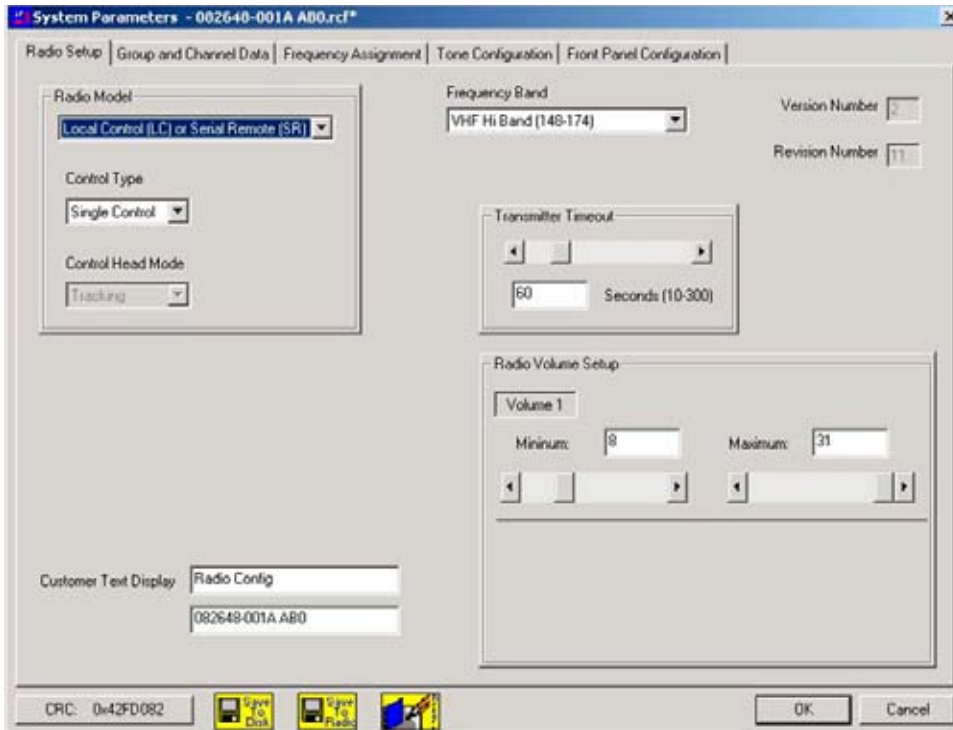
Proven in freight applications, the 12R Series II LC radio is compliant with AAR 12-2 standards. It includes a built-in control panel with speaker, display, and 29 programmable function buttons.



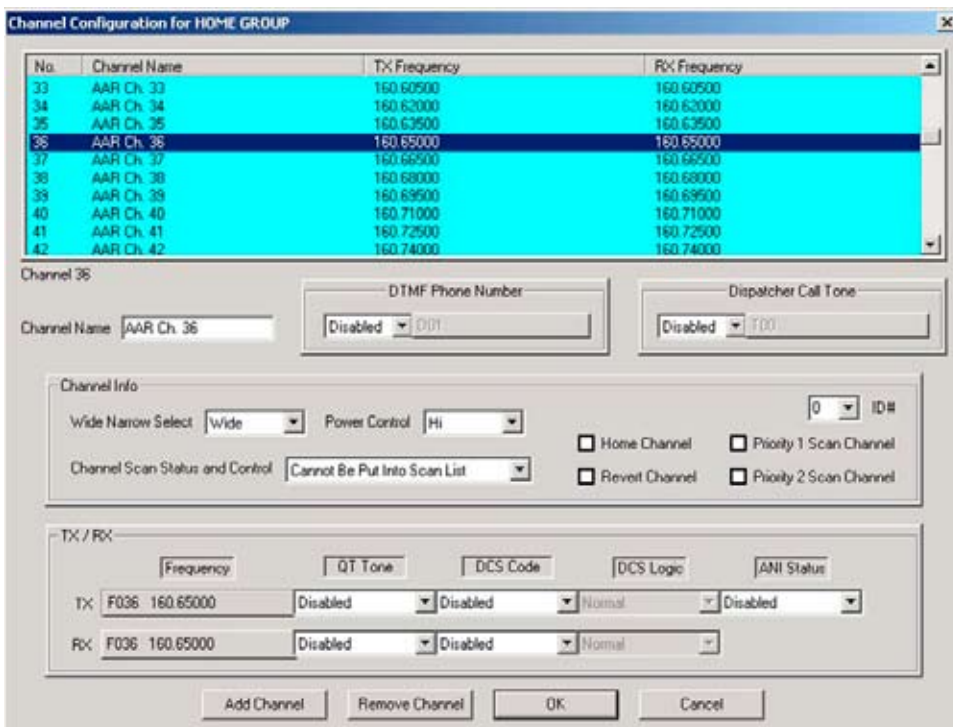
Recessed connectors provide for minimum space installation and reduce damage during transporting. Easy grip handle and lightweight design (only 14 pounds) reduce handling risks. The key-tool option for locking into tray offers added security.



The large character, backlighted display panel is easily read in dark or daylight. Two lines of sixteen alphanumeric characters provide the user with radio status and channeling information.



For ultimate application flexibility, the 12RISETUP program provides programming that's user friendly for anyone familiar with a Windows® environment. All routine adjustments required for radio maintenance are made using the PC Tool. Eliminating the need to remove covers reduces total shop time.



The radio has capacity for 256 channels that can be independently programmed with bandwidth, power, or tone signaling options.