R–4-CAN CAN Compatible Receiver

With Connector, Cable, and Internal or External Antenna

FEATURES

- **Reduced Wiring**
  CAN compatibility greatly reduces wiring by eliminating individual output connections.

- **Compact, Rugged Enclosure**
  Compact size is ideal for mounting in tight spaces. Environmentally sealed for harsh off-highway applications. IP66 rated enclosure and connector.

- **Affordable**
  Fully integrated receiver. No external modules required. Factory configured to interface with popular CAN controllers.

- **Flexible I/O**
  2 x J1939 CAN ports, 1 x RS485 port for tether control, and 2 x proportional outputs configurable for PWM, digital (bang/bang), ratiometric voltage, or 0-5vdc.

- **License Free**
  Pre-certified FCC - no license required.

- **External Antenna (Option)**
  Flexible antenna can be installed away from obstructions to improve range.

OPERATION

**CAN Output**
SAE J1939 compatible. Consult factory for specific protocols, address and data rate information.

**Programmable Logic**
Receiver can be factory programmed to perform a wide range of logical functions and sequences.

**Pushbutton/Tether Learn**
Transmitter and receiver are “married” to permit operation of multiple radios in the same area without cross-control. Transmitters and receivers can be married in the field by pushing a button in the receiver or momentarily connecting the optional tether cable.

**Safety Features**
Receiver provides a “heartbeat” output 20 times per second. Controller should be programmed to monitor this output to detect fault conditions.

APPLICATIONS

- Remote process control
- Specialty off-highway equipment
- Crane control
- Sawmill machines
- Conveyors
- Earth compactors
- Rock crushers
- Robotics
- Wood chippers and grinders
- Winch systems

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RX4-CAN</td>
<td>Standard range CAN receiver</td>
</tr>
<tr>
<td>RE4-CAN</td>
<td>Extended range CAN receiver</td>
</tr>
<tr>
<td>RZ4-CAN</td>
<td>International CAN receiver</td>
</tr>
</tbody>
</table>
SPECIFICATIONS

General
- Power Requirement: 10 to 30vdc, 500mA max
- Fuses: Internal 1-amp self-resetting fuse

Radio
- Frequency: 902-928MHz, Unlicensed ISM band standard models
  2.4-2.4835GHz, Unlicensed ISM band international option
- Type: Frequency hopping spread spectrum
- Frequency Control: Direct FM
- FCC id:
  - OUR9XCITE: Standard range
  - OUR9XTREAM: Extended range
  - OURXBEE: International version
- Sensitivity: -104dBm

Receiver
- RF Connector (option): BNC
- Communication: CAN, SAE J1939; 2 ports
  - RS485; Tether control
  - Consult factory for available protocols and message specifics
- Field Wiring: 12-pin DTM connector with 4-conductor, 6’ pigtail cable

Enclosure
- Nylon 6/6 black, IP66
- Approximate size: 5.24” L x 4.63”W x 1.48”D

Environmental
- Storage: -40ºC to 85ºC
- Operating: -10ºC to 60ºC

POINT MAP
- Address: 11 or 29 bits factory set - consult factory for specific requirements
- Data Rate: 250kbps; update 20 times per second

WIRING

![Wiring Diagram]

- CAN-HI
- CAN-LO
- RED
- WHITE
- BLACK
- GROUND
- CAN-HI
- CAN-LO