

The **GE MDS Orbit ECR (Edge-Connect Router) LN4** operating in the **450 to 520 MHz** licensed narrowband frequency band is a **compact, industrial wireless router designed for secure SCADA and critical infrastructure communications**.

Radio Specifications (LN4 450–520 MHz)

- **Frequency Range:** 450 to 520 MHz (Licensed Narrowband - L4C band)
- **RF Connector:** TNC Female
- **Carrier Power:** Up to 5 Watts
- **Data Rate:** Up to 120 Kbps (depending on channel bandwidth and modulation)
- **Operation Range:** Point-to-multipoint and peer-to-peer configurations, up to 30+ miles per hop depending on terrain and antenna setup.
- **Encryption:** AES-128 / AES-256 secure wireless transmission.

Interfaces & Ports

- **Ethernet Ports:** 1x RJ-45 10/100 Mbps Ethernet port
- **Serial Ports:** 1x RJ-45 RS-232 / RS-485 serial port
- **Management Port:** 1x Mini-USB 2.0 port
- **Antenna Ports:** 1x TNC female antenna connector for the primary RF link

Electrical & Environmental

- **Input Voltage:** 10–60 VDC industrial power range
- **Operating Temperature:** -40°C to +70°C (-40°F to 158°F)
- **Form Factor / Mounting:** Compact Edge-Connect Router (ECR) package available with DIN-rail or standard flat/surface mounting options.
- **Certifications:** Industrial safety and hazardous location compliance including UL, CSA, FCC, and IC standards.