Easily connect apparatus to radio frequency (RF) mesh network

Eaton’s RFN-1200 wireless radio provides secure two-way communication with the Yukon™ master station using the DNP3 protocol.

Both serial and Ethernet connectivity is standard with the RFN-1200 radio. Flexible deployment options allow the radio to be used as an overlay to an existing advanced metering infrastructure (AMI) or demand response (DR) network.

The RFN-1200 radio can be used in a distribution automation (DA) scenario to leverage Eaton’s self-forming, self-optimizing and self-healing smart grid network. This network-first approach can assist in tracking and maintaining critical utility assets today, and allow your utility to leverage the network for your future smart grid applications.

Remote flexibility
The RFN-1200 can be used with many types of controls such as capacitor bank controls, voltage regulator controls and reclosers.

One smart grid platform
- One smart grid platform, delivered and supported by one company:
  - Fully interoperable within Eaton’s smart grid network
  - Minimal training needed
  - Easy to set up and use

Improve productivity and efficiency
- Auto-populated setup within the Yukon head-end master station
- Can be used with existing DA devices:
  - Capacitor bank control
  - Voltage regulator controls
  - Recloser controls
- Supports industry standard DA communications over RF AMI networks (DNP 3.0)
One smart grid platform, delivered and supported by one company—Eaton.

## Specifications

### Network
- A self-forming, self-configuring, self-healing wireless mesh network
- Full peer-to-peer communication
- Multiple, redundant paths
- No network address management required
- Automatic network acquisition
- Automatic traffic management
- Two-way authentication, one-time session keys and 128-bit AES encryption
- Automatic time synchronization
- Single network for advanced metering infrastructure (AMI), demand response (DR) and distribution automation (DA)

### Interface
- DNP 3.0
- Utilizes RS-232 serial connection
- Ethernet (future)

### Application
- Compatibility:Compatible with DNP 3.0 supported devices
- Example devices: Eaton’s CBC-8000 capacitor bank control and CL-7 voltage regulator control
- Data storage: Nonvolatile data storage provides extra security in the event of communication or power outage

### Radio
- Operating frequency: 902–928 MHz
- Reliable data transmission: Error detection, correction and retransmission
- RF output power (max.): 30 dBm

### Compliance
- FCC Part 15

### Dimensions
- Box dimensions in inches (cm) (including mounting tabs): 1.38 H x 4.77 W x 4.25 D (3.49 H x 12.12 W x 10.79 D)

### Operating requirements
- Power source: 12 Vdc
- Humidity range: 0–95% noncondensing
- Temperature range: −40 °F to +185 °F (−40 °C to +85 °C)

For Eaton’s RFN-1200 product information, call 1-877-288-4636, or visit Eaton.com/cooperpowerseries.

Follow us on social media to get the latest product and support information.