Nexus COMMS Series

Intelligent IoT End Device for Protocol-Enabled Equipment

The Nexus COMMS connects protocol-enabled equipment—HVAC systems from Lennox, Trane, and Carrier, generators, smart meters, and more—to NexRev's Freedom cloud platform via secure LTE cellular. With edge-based intelligence, QR code commissioning, and magnetic mounting, the COMMS installs in minutes and operates autonomously even during cloud outages.



30+	1M+	50–90%	24/7
YEARS EXPERTISE	CONNECTED DEVICES	FASTER INSTALL	AUTONOMOUS OPERATION

KEY FEATURES

- Multi-carrier LTE Cat M1 / NB-IoT cellular
- QR code commissioning via mobile app
- BLE 5.0 with support for up to 8 wireless sensors
- BLE mesh for inter-device data relaying
- RS-485 communications port
- RJ45 Ethernet port
- Remote OTA configuration and firmware updates
- Magnetic and bracket-based mounting
- Edge-based autonomous operation
- Secure LTE — isolated from customer IT networks
- End-to-end TLS 1.3 encryption, X.509 certificates
- Widest machine profile library (hundreds of models)

COMPATIBLE EQUIPMENT

Application	Supported Manufacturers / Models
Smart HVAC	Lennox, Trane, Carrier, York, Daikin, and more
Generators	Generac, Cummins, Kohler, Caterpillar
Smart Lighting	Square D, Eaton, GE, and Acuity smart breakers
Power Metering	Veris and Dent power meters
DrivePak Connect	NexRev DrivePak VFD monitoring

Profile library expands continuously — visit nexrev.com for the complete list.

TECHNICAL SPECIFICATIONS

Power Supply

Parameter	Value
Voltage Range	24VAC/DC; ±15%; Class 2
Frequency	50/60 Hz
Power Consumption	8VA max

Radios

Radio	Specification
Bluetooth	Industrial BLE 5.0
Cellular	LTE Cat M1 / NB-IoT

Environmental

Parameter	Value
Operating Temp	-40°F to 140°F (-40°C to 60°C)
Storage Temp	-40°F to 185°F (-40°C to 85°C)
Humidity	5% to 95% non-condensing

Standards & Certifications

Standard	Compliance
FCC	Part 15 compliant
PTCRB	Certified
ISED	Listed

Hardware

Component	Specification
Processor	ARM Cortex-M33 @ 64 MHz
RTC	Built-in with battery backup
Wire Connectors	5mm pitch terminal blocks

Communication Interfaces

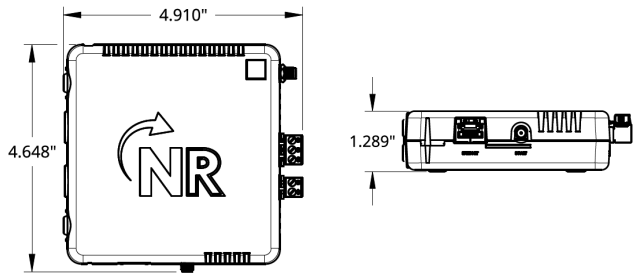
Interface	Details
RS-485 (MSTP)	3-position terminal block (+, –, Shield)
Ethernet	RJ45 port (BACnet/IP)

Supported Protocols

Modbus RTU	BACnet MSTP
BACnet/IP	NAFEM
L-Net (NexRev)	N-Net (NexRev)

Dimensions

4.910” × 4.648” × 1.289” (W × H × D)



CYBERSECURITY BY DESIGN

Encrypted LTE cellular isolates building controls from customer IT networks. **No Wi-Fi. No LAN dependency. Zero network attack surface.**

All communications secured with TLS 1.3 encryption and X.509 certificate-based device authentication. Each device operates on a dedicated cellular connection managed by NexRev, keeping customer networks completely untouched.

ORDERING & SUPPORT

For ordering information, product availability, or technical support:

Email
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Web
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Made in
USA — Plano, Texas