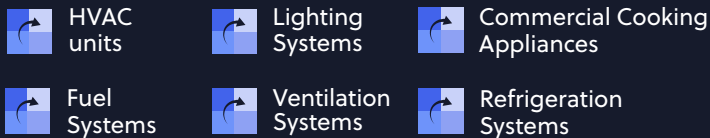


# Nexus COMMS Device

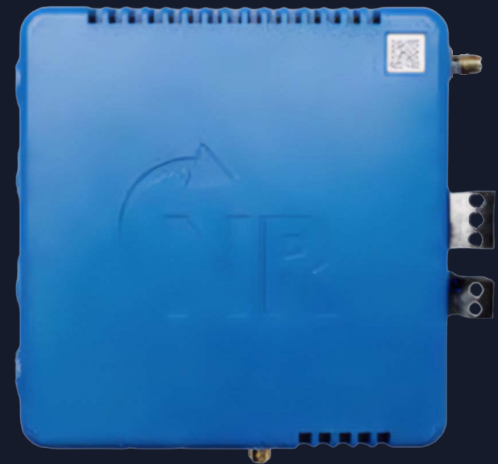
The Nexus devices are intelligent IoT modules that connect to the cloud via a multi-carrier cellular connection.

These devices contain an active library of machine and/or system profiles for auto setup and commissioning.

This library allows for monitoring and controlling a variety of machine types such as:



And many other commercial and industrial spaces and systems



## Features

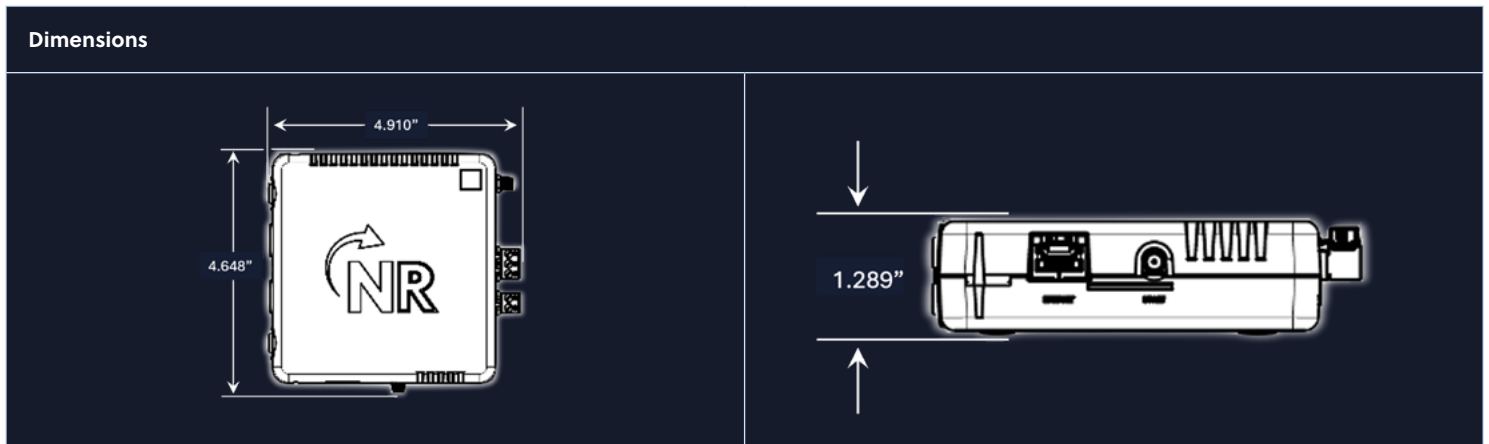
- Cloud connectivity via multi-carrier LTE Cat M1 or NB-IoT
- QR Code for Mobile App Commissioning
- Industrial BLE – 2.4 GHz Wireless
- Mesh network for inter-device data communication
- Remote configuration and firmware updates via cloud – auto or scheduled
- RS-485 Communications Port
- BACNet over IP
- Magnetic and bracket-based mounting options

## Compatible with

- Smart HVAC Connection
  - Lennox
  - Trane
  - Carrier
  - York
  - Daiken - and many others
- Smart Lighting Control
  - Square D Smart Breakers
  - Eaton Smart Breakers
  - GE
  - Acuity
- Generators
  - Generac
  - Cummings
  - Kohler
  - Caterpillar

Power Supply Input	
Voltage Range	24VAC/DC; ±15%; Class 2
Frequency Range	50/60Hz
Power Consumption	8VA max
Standards and Regulations	
FCC	Compliant with part 15 of FCC rules
PTCRB	Compliant with PTCRB standards
ISED	Listed by ISED
Radios	
Bluetooth	Industrial BLE 5.0
Cellular	CAT M1/NB-IoT Standards
Environmental	
Operating Temp	-40°F to 140°F (-40°C to 60°C)
Storage Temp	-40°F to 185°F (-40°C to 85°C)
Relative Humidity	5% to 95% non-condensing
Hardware	
Processor	Arm Cortex-M33 @ 64MHz
Real Time Clock (RTC)	Built-in RTC w/battery backup
Wire Connectors	5mm pitch

Communication Interfaces	
MSTP	
Connection Type	3 position terminal block
Connection Point	Positive, Negative, and Shield
Supported Protocols	
Modbus RTU	L-Net by NexRev
BACnet MSTP	N-Net by NexRev
BACnet over IP	Custom
NAFEM	



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