Nexus T2 Series

Compact IoT End Device for Direct I/O Control

The Nexus T2 is a compact IoT end device designed for monitoring and controlling simple field devices—lighting, ventilation, refrigeration sensors, and general-purpose I/O—through NexRev's Freedom cloud platform. With 2 universal inputs and 2 universal outputs, the T2 connects directly to equipment via discrete wiring and communicates through secure LTE cellular. QR code commissioning and magnetic mounting enable installation in minutes.



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
- 2 universal inputs (0-10V, 4-20mA, resistive, dry contact)
- 2 universal outputs (0-10V analog or 0-12VDC digital)
- Remote OTA configuration and firmware updates
- Magnetic and bracket-based mounting
- Edge-based autonomous operation
- Secure LTE — isolated from customer IT networks
- 16-bit ADC input resolution
- Built-in back-EMF protection on outputs

COMPATIBLE APPLICATIONS

Application	Description
Lighting Control	ON/OFF switching
Ventilation	Exhaust fans, air curtains, hoods
Refrigeration	Walk-in cooler/freezer monitoring
Unit Heaters	Temperature-based on/off control
Door Monitoring	Door contact sensing
General I/O	Sensor monitoring and relay control

TECHNICAL SPECIFICATIONS

Power Supply

Parameter	Value
Voltage Range	24VAC/DC; ±15%; Class 2
Frequency	50/60 Hz
Power Consumption	16VA 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

Universal Inputs

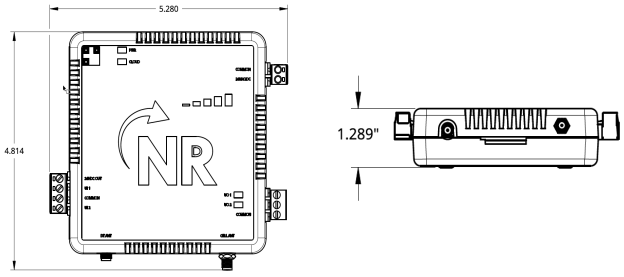
Parameter	Value
Input Type	Universal; software configurable
Resolution	16-bit ADC
Modes	0-10VDC, 4-20mA, resistive, dry contact
Power Supply Out	24VDC; 140mA max

Universal Outputs

Parameter	Value
Output Type	Universal; software configurable
Resolution	10-bit DAC
Modes	0-10VDC analog or 0-12VDC digital
Protection	Built-in back-EMF snubbing diode

Dimensions

5.280” × 4.814” × 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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Made in
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