LANTRONIX®

NTC-201 IIoT Cat 1bis Cellular Router

Product Overview

July 2026



Industrial IoT Gateways, Routers, Modems

https://www.lantronix.com/products-class/industrial-iot/

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Connect Critical Assets and Vehicles

- **Connect Any Serial Asset:** Any Vendor, Any Age, Anywhere
- **Lowest TCO:** Built-in Fieldbus Protocol Translation. **Optimize cellular** data cost and **control unpredictable cloud** costs
- **Edge Intelligent:** Improves Resiliency **No data is lost** if cellular backhaul goes down.



Industrial Connectivity Bridging Legacy Assets to Modern Networks

- **Protocol Conversion:** Integrate serial and industrial protocols into IP-based networks.
- **Secure Remote Operations:** VPN, firewall, and remote device management capabilities.
- **Industrial Reliability:** Purpose - built for harsh environments.



High-Speed Bandwidth for the **Secured** Data-Intensive Edge.

- **Absolute Reliability:** Self-healing connection recovery.
- **High-Speed:** Worldwide 5G/4G and Gigabit Ethernet.
- **Security Layer:** Configurable Firewall and VPN.



Edge-AI Gateways Asset & Process Insight to the Cloud.

- **Protocol Translation:** Supports diverse industrial standards.
- **Edge Processing:** Local data analysis and storage.
- **Universal I/O:** Ethernet, Wi-Fi, Cellular, and Bluetooth.

NTC-201



Size: 91x135x30 mm

NTC-201-01-01

Global
FCC/IC, PTCRB, CE, RCM

AT&T, Verizon

verizon AT&T

4G LTE Cat. 1bis IIoT Router

MSRP $169

Cat-1bis is a **cost-efficient, globally deployable LTE technology** designed for low-to-mid bandwidth IoT applications. It offers better performance than NB-IoT/Cat-M1, while avoiding the cost, power consumption, and complexity of Cat-4 and 5G.

Hardware

- 1x Fast Ethernet (FE) port
- External SIM and MFF2 soldered SIM option
- Operating Temperature Range: -30°C to +70°C
- DC Power (8 - 40V DC)
- Wall mountable
- DIN rail mount optional

Applications

- Fire Alarm Panels
- BMS Control Panels
- Connected Elevators & Escalators
- Vending & Ticketing Machines
- Digital Signage
- Access Control Systems

Software

- Percepxion
- TR-069, LwM2M: remote device management
- VPN tunnel support
- User scripting and SDK available

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Lte

NTC-201 Global	B1, B2, B3, B4, B5, B7, B8, B12, B13, B18, B19, B20, B25, B26, B28, B34, B38, B39, B40, B41, B66

Industrial IoT Key Use Cases



Building Safety & Security

Secure Connectivity → Cyber Resilience Readiness

NTC-201 provides independent LTE connectivity for fire alarm, access control, and security systems—enabling remote updates and monitoring without relying on building IT.



Building Automation

Modernize Legacy Systems → Reduce Service Costs

Connect HVAC, BMS, and control systems for remote diagnostics, configuration, and firmware updates across distributed sites.



Retail & Vending

Connected Operations → Improve Uptime & Service Efficiency

Enable remote monitoring of vending machines, kiosks, and retail equipment with secure LTE connectivity—reducing truck rolls and improving asset availability.

Building Safety & Security

Secure Connectivity → Cyber Resilience Readiness

Challenge

Many installed machines, controllers, and safety systems (e.g. fire alarm panels) remain disconnected from the internet, making remote monitoring, firmware updates, and cybersecurity compliance difficult. For example, under the EU Cyber Resilience Act (CRA), connected products must receive security updates throughout their support lifecycle, but offline assets cannot be updated or managed remotely.

Solution

The Lantronix NTC-201 provides a secure, dedicated LTE Cat 1 bis connection for legacy and deployed assets without requiring access to building networks or firewall changes. Combined with Percepxion™ device management, organizations can remotely monitor, update, and secure field assets at scale—helping enable Cyber Resilience readiness.

Why customers choose Lantronix

- **Secure supply chain** – Diversified sourcing with no high-risk components — built for compliance-sensitive deployments.
- **Updates with Audit Trail** – Percepxion delivers and logs OTA firmware and security patches fleet-wide — the audit trail CRA readiness needs.
- **Deploy globally, one part number** – Single globally-certified SKU with single-antenna design. Simpler to certify, stock and roll out.



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Retail & Vending

Simplified Connectivity → Lower Deployment Costs

Challenge

Vending machines are often deployed across geographically dispersed locations with varying network requirements. Managing multiple hardware variants, certifications, antennas, and connectivity solutions increases deployment complexity, inventory costs, and ongoing operational expenses.

Solution

The Lantronix NTC-201 delivers secure LTE Cat 1 bis connectivity in a compact, low-power design. A single globally certified SKU and single-antenna architecture simplify deployment across regions while enabling remote monitoring, management, and software updates for connected vending fleets

Why customers choose Lantronix

- **Global SKU Simplicity –** One globally certified product reduces inventory, certification, and logistics complexity.
- **Single-Antenna Design –** Faster installation, reduced hardware costs, and simplified machine integration.
- **Lower Total Cost of Ownership –** Low-power LTE Cat 1 bis connectivity optimized for vending telemetry, remote management, and asset monitoring.



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The Percepxion™ IoT Edge Solutions Platform

Accelerate your time to market.

Centralized Device Management

Cloud-powered single pane of glass for anytime, anywhere secure access to your globally installed Lantronix devices.

Remote Device Monitoring

Bandwidth-optimized real-time monitoring with rules-based alerts and notifications.

Application Integration

End-to-end IoT application download, provisioning and update to the edge.

Data Analytics

Device telemetry data is captured for real-time and historical trend and anomaly analysis

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Securely deploy and manage device applications at scale

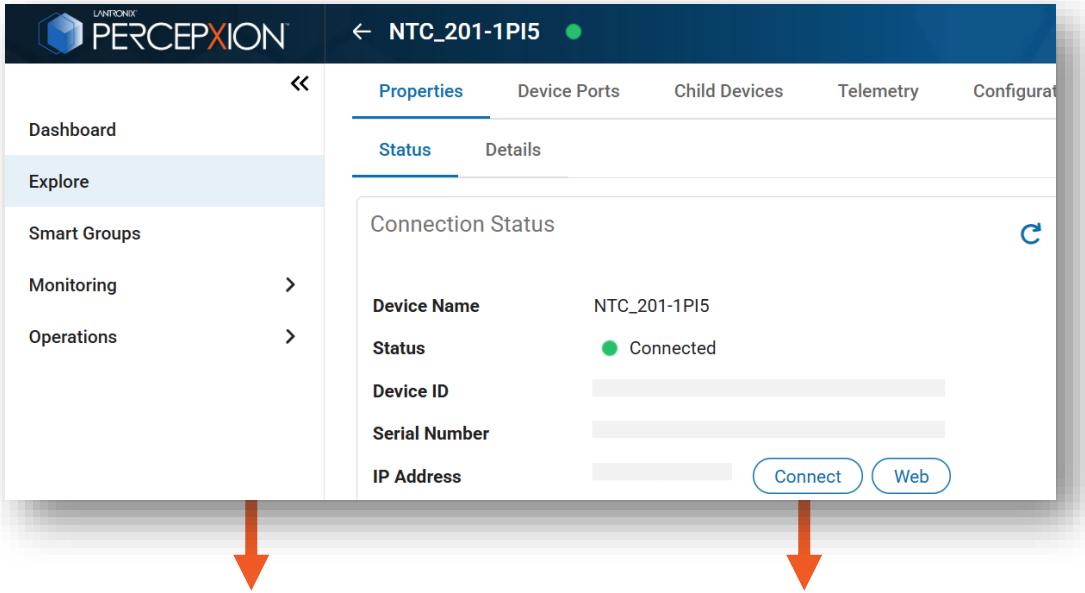
Percepxion Remote Device Management

Device Label

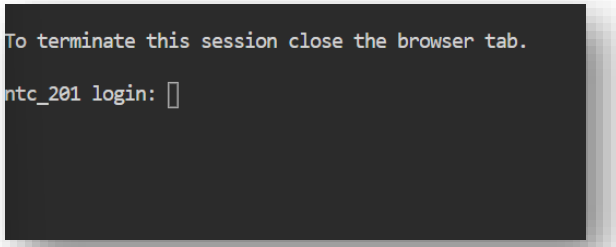


Scan the QR code on the device label to register your device on Percepxion for remote device management.

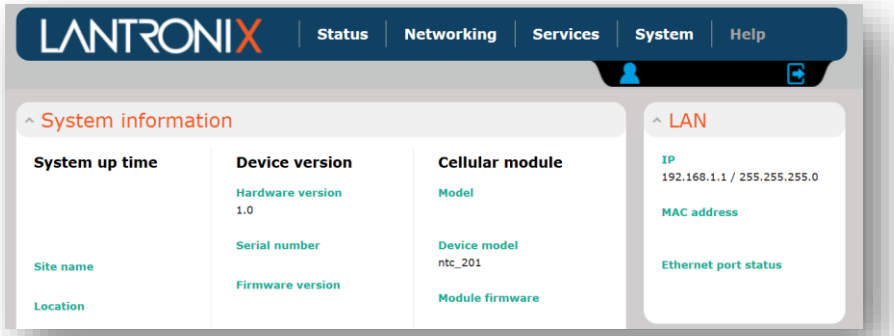
Percepxion Dashboard



Remote Device Console



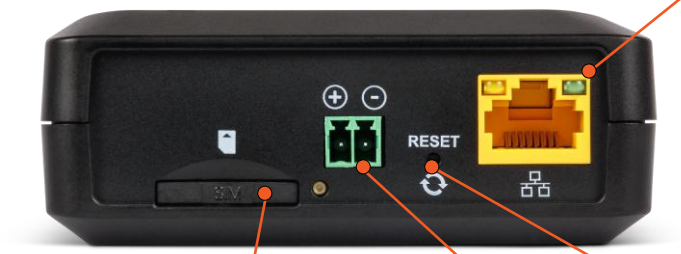
Remote Device WebUI



NTC-201 Interfaces







Single 4G LTE Cellular antenna

SMA connector

Single Fast Ethernet port

Recessed factory reset button

SIM card slot (2FF Format)
Internal MFF2 SIM position available

Power (8 to 40VDC)

Simple Clear LED Status

LED ICON	NAME	COLOUR	STATE	DESCRIPTION
	Power		Off	Power off
			Blinking'	Powering up
			On	Power on
	SIM		Off	No SIM detected
			Blinking	SIM error
			On	SIM installed and working
4G	4G Network		Off	No 4G network connection
			Blinking	Connecting to 4G network
			On	Connected to 4G network
SIGNAL	Signal strength		Off	No singal
			One Lit	Poor signal
			Two Lit	Fair signal
			Three Lit	Good signal
	Custom Indicator	Customizable		Programmable LED for custom use

What's in the Box?

NTC-201

4G LTE Cat. 1 bis IIoT Router



Cellular Antenna



Ethernet Cable



Box Insert



Device Mounting Bracket



Mounting Bracket Adapter



Six-way terminal block



Optional Accessory

PSU-0250

POWER SUPPLY
WALL CUBE, 12VDC 2.5A, 30W,
2M CABLE WITH 2 BARE WIRES,
UNIVERSAL AC PLUG EU/UK/US/SAA, +/-2KV



Market Segments

Retail/QSR



Transportation



Private Networks



Digital Signage



Smart Cities



Logistics



Industrial



Agribusiness



Construction



Building



Security



Energy



Thank You!



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Global Industrial IoT Leader based in Irvine, CA