![OptConnect - Managed Wireless Solutions logo]

OptConnect neo2 aware

Upgrade your cellular connectivity with neo2 aware, the newest router in the OptConnect neo2 series. With the neo2 aware, you get the same trusted 4G LTE Cat 4 functionality of the original, plus additional performance enhancements that give you even more control over your connected equipment. The neo2 aware is ideal for applications requiring frequent over-the-air management. It is a powerful solution for automated retail kiosks, security applications, micro markets, digital signage, smart safes, and other types of connected equipment that demand visibility, control, and reliability.

The Best of Both Worlds

Like its famous predecessor, the neo2 aware offers multi-carrier functionality to ensure the greatest possible uptime during network outages or other unexpected events, providing added peace of mind and fewer costly truck rolls. It also offers battery backup, precise location tracking, connected client visibility, and future-proof aware capabilities — including power sensors that alert you to unexpected power loss and notify you again when power is restored.

Advantages:
- High-speed data connection - 4G LTE Cat 4
- Compact size 4.1" x 3.6" x 1.2"
- Multi-carrier redundancy
- Precise location tracking
- Instant power outage notifications / battery backup
- Strong magnetic base / flexible mounting
- LED indicators for easier installation
- Future-proof aware technology
- Visibility into connected client

Recommended for:
- Equipment requiring a high level of visibility/control

- *Kiosks, Micro Markets, Smart Safes, Industrial, Energy*

A Fresh New Look

Along with its built-in aware capabilities, the neo2 aware features an expanded form factor and a stronger magnetic base for greater mounting flexibility. New LED indicators also help streamline setup and improve client visibility right out of the box.

NEO2 AWARE TECHNICAL SPECIFICATIONS

Wireless WAN

LTE CAT 4	4G (LTE) - Cat 4, FDD B2[1900], B4[1700], B5(850), B12[700], B13[700], B14[700], B66(1700), B71[600]
Speed	Capabilities -Up to 150 mbps download, Up to 50 mbps upload Practical -Up to 40 mbps download, Up to 20 mbps upload
SIM Slots	1 internal 3FF Micro-SIM Slot, 1 embedded/soldered
Antenna Connectors	2 x SMA

Ethernet

LAN	2 x LAN ports 10/100 Mbps, RJ-45, compliance IEEE 802.3, IEEE 802.3u, standards, supports auto MDIMDIX

Bluetooth

Bluetooth 5.0	*Bluetooth Low Energy (BLE) 5 for short range communications
Antenna	Internal/chip

GPS

GNSS	GPS, GLONASS, BeiDou, Galileo, and QZSS
Antenna Connectors	1 x SMA

Sensors

Type	1 x Microphone, 2 x Light, 1 x Accelerometer, 2 x Temperature, 1 x Humidity

Power

Input	5VDC Barrel Connector
Consumption	Typical: 1W, Max: 5W

Battery

Type	Li-ion single cell (battery backup)
Capacity	3200 mAh

General

LEDs	1 x Power On, 1 x Battery status, 2 x Eth LAN status, 1 x BLE status, 4 x Signal Quality
CPU	1 x Qualcomm QCA4531 650 MHz, 1 x IoT MCU
Dimensions	4.1" x 3.6" x 1.2"
Weight	.46 Lbs/210 grams

Approvals

Cellular	Verizon ODI, PTCRB, AT&T
Regulatory	FCC/IC, RoHS

*Inquire for availability

CELLULAR AND GPS ANTENNA TECHNICAL SPECIFICATIONS
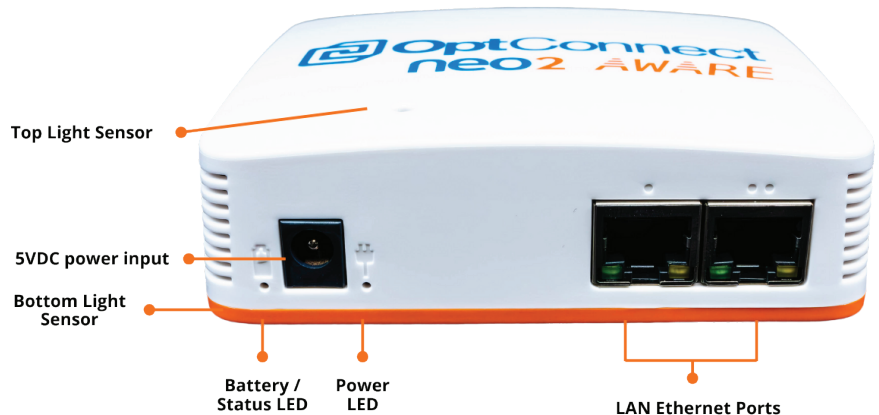
Cable 1 and 2 - Cellular Electrical Specifications

Frequency	698-960, 1710-2170, 2500-2700
Nomincal Impedance	50
VSWR	~2.7:1 @ 698-960, ~1.5:1 @ 1710-2170, 1~.4:1 @ 2500-2700
Radiation Pattern	Omnidirectional
Efficiency %	~39 @ 698-960, ~52 @ 1710-2170, ~50 @ 2500-2700
Average Gain	~(-4.2)@ 698-960, ~(-2.9) @ 1710-2170, ~(-3.0) @ 2500-2700
Peak Gain	~(-0.1) @ 698-960, ~2.9 @ 1710-2170, ~3.5 @ 2500-2700
Polarization	Linear
Max Input Power	25

Cable 3 - GPS Electrical Specifications

Standard	GPS/QZSS/Galileo & GLONASS
Frequency (MHz)	1575.42, 1598-1606
Nomincal Impedance	50
VSWR	<=1.4:1 dB
Radiation Pattern	Hemispherical
Average Gain (dBi)	28 @ 2.7V
Polarization	RHCP

GPS Antenna Connector

Cellular Activity LED

Cellular Antenna Connectors

Cellular Signal Strength LEDs

Wireless / Gateway Activity LED

Top Light Sensor

5VDC power input

Bottom Light Sensor

Battery / Status LED

Power LED

LAN Ethernet Ports

Fully Managed Connectivity

Before your neo2 aware router ships, the OptConnect team follows a rigorous process to design, deploy, and manage your device. Your fully managed solution includes superior cellular technology with robust carrier networks, secure/private IP connections, 24 x 7 access to the industry's best customer care, real-time monitoring and management, data overage risk mitigation, lifetime warranties, and much more.

Lifetime Access to Summit

Every neo2 aware purchase includes access to Summit, the OptConnect monitoring platform that simplifies anywhere access to your wireless portfolio. In Summit, you can easily group devices by device type, location, organization, technology, type of connected equipment, or by any other designation. You can also use aware data to see what's happening in and around your equipment.

With customizable permissions in Summit, you can also grant exclusive access to groups of devices within your company and to third-party organizations or individuals, ensuring ultimate security for all your devices.

OptConnect
SUMMIT

Monitor device health

Check signal strength

Reset wireless connections

24/7

Check status in real time

Integrate with API

Review check-in data

Get device location info

View connected clients

For more information about neo2 aware, visit optconnect.com/products/neo2-aware/ or call 877-678-3343.