OptConnect

MANAGED WIRELESS SOLUTIONS

OptConnect max aware

Automatic Failover. Uninterrupted Connectivity.

The max aware router gives you the best of both worlds: fully managed connectivity + Wi-Fi, the convenience, security, and cost savings of WAN failover, and sensors that send alerts during power outages.

If your primary Internet connection goes down, max aware fails over automatically to cellular and reduces your reliance on more expensive data plans. Connect more pieces of equipment to a single router - or quickly connect your Wi-Fi only devices.
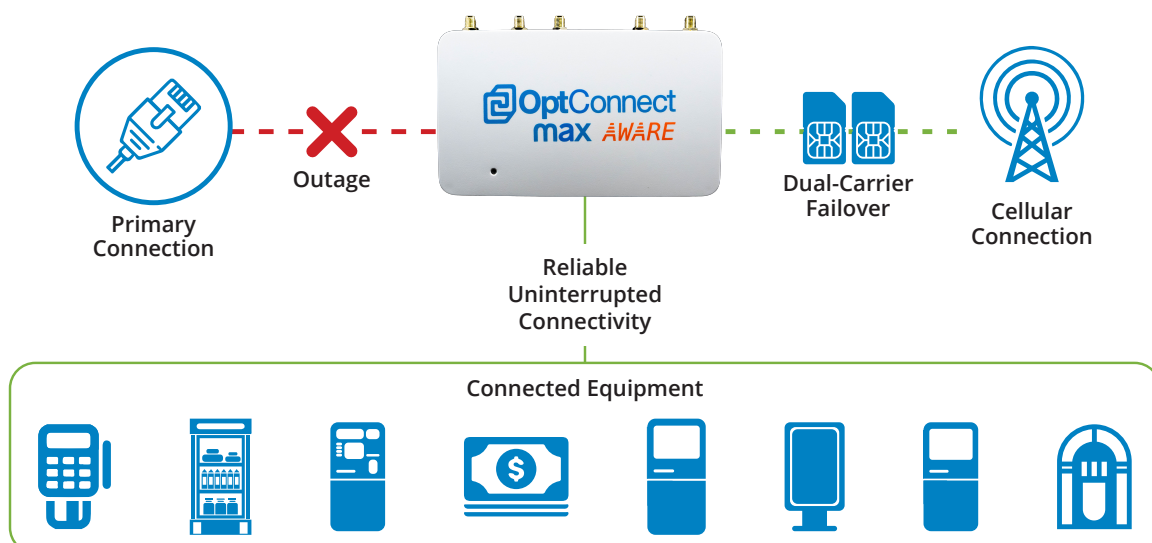
Thanks to max aware, you can see what's connected, block what you don't want connected, and manage your network at scale.

OptConnect max AWARE

CELL | **Wi-Fi** | **WAN** Failover

Advantages:

- High-speed 4G LTE CAT 4
- Dual-carrier redundancy
- Ethernet WAN to cellular failover
- Pre-configured with Wi-Fi settings
- Real-time alerts during power outages
- Easy-fit build: 6.125" x 3.625"
- Battery backup for peace of mind
- Out-of-box plug and play
- Remote device connectivity
- Connected client visibility in Summit

How it Works

OptConnect max AWARE

Primary Connection

Outage

Reliable Uninterrupted Connectivity

Dual-Carrier Failover

Cellular Connection

Connected Equipment

MAX AWARE TECHNICAL SPECIFICATIONS

Wireless WAN

LTE	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

WAN	1 x WAN port 10/100/1000 Mbps, compliance IEEE 802.3, IEEE 802.3u, IEEE 802.3z standards, supports auto MDI/MDIX
LAN	4 x LAN ports 10/100 Mbps, RJ-45, compliance IEEE 802.3, IEEE 802.3u, standards, supports auto MDI/MDIX

Wi-Fi

Mode	IEEE 802.11ax/ac/b/g/n, Access point (AP), Station (STA)
Frequency	2.4Ghz, *5Ghz, *concurrent dual band
Clients	Up to 16 simultaneous connections
Security	WPA personal, WPA2 personal, WPA3 personal, WPA/WPA2 personal mixed, WPA2/WPA3 personal mixed
Antenna Connectors	2 x RP-SMA

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: 5W, Max: 13W

Battery

Type	Li-ion single cell, **battery backup
Capacity	2500mAh

General

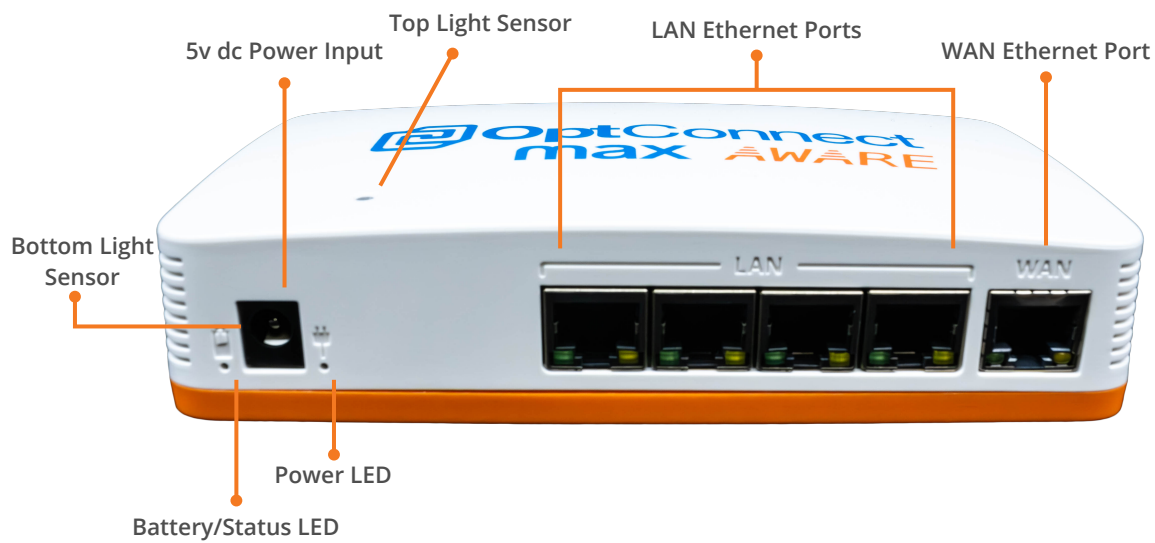|	
LEDs	1 x Power On/Good/Bad, 1 x Battery status, 4 x Eth LAN status, 1 x Eth WAN status, 2 x WiFi status, 1 x GPS status, 1 x BLE status, 4 x Signal Quality, 1 x Cellular Activity
CPUs	1 x Qualcomm QCA4531 650 MHz, 1 x IoT MCU

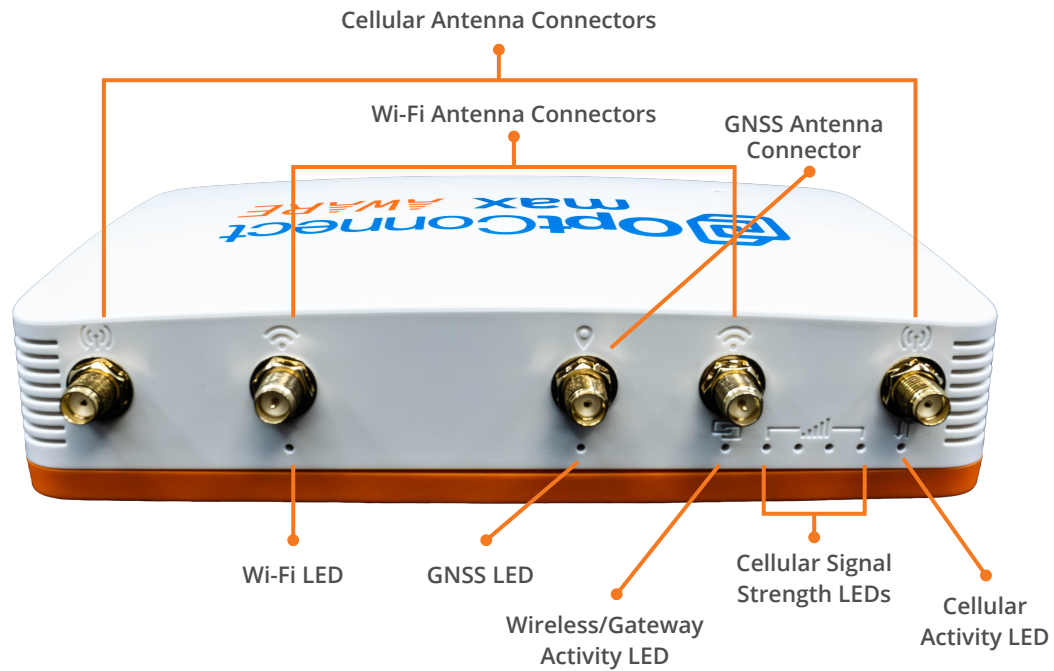## Approvals

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

Management

Fully Managed Service	OptConnect Summit

*Inquire for availability   **Run time varies

Cellular Antenna Connectors

Wi-Fi Antenna Connectors

GNSS Antenna
Connector

Wi-Fi LED

GNSS LED

Wireless/Gateway
Activity LED

Cellular Signal
Strength LEDs

Cellular
Activity LED

Top Light Sensor

5v dc Power Input

LAN Ethernet Ports

WAN Ethernet Port

Bottom Light
Sensor

LAN

WAN

Power LED

Battery/Status LED

Cellular & GPS Antenna

Wi-Fi Antenna

Ethernet Cable

Power Cable

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

WI-FI ANTENNA TECHNICAL SPECIFICATIONS

Electrical Specifications

Frequency	2410-2490, 4920-5925
Nomincal Impedance	50
VSWR	~1.5:1 @ 2.4GHz, ~2.3:1 @ 5.0GHz
Radiation Pattern	Omnidirectional
Efficiency %	~51.5 @ 2.4GHz, ~33.6 @ 5.0GHz
Average Gain	~(-2.9) @ 2.4GHz, ~(-4.8) @ 5.0GHz
Peak Gain	~3.2 @ 2.4GHz, ~2.9 @ 5.0GHz
Polarization	Linear
Max Input Power	25

OptConnect

MANAGED WIRELESS SOLUTIONS

OptConnect max aware comes integrated with OptConnect's suite of management tools, support, security, and monitoring to take the guesswork, frustration, and stress out of connectivity.

24/7 Customer Care Center	Dual Carrier	Robust Warranty	Real-Time Monitoring/Management
Secure Private IP Network Connections	Summit Customer Portal	Auto Reconnect	Customized Data Plan
API Integration	Device Level Monitoring	Data Overage Risk Mitigation	Fulfillment and JIT Ship to Site Logistics

Ready to see how max aware can improve connectivity and save you money?

Call us today at 877-678-3343 or email sales@optconnect.com.

OptConnect
MANAGED WIRELESS SOLUTIONS

Cellular Antenna Connectors

Wi-Fi Antenna Connectors

GNSS Antenna Connector

Wi-Fi LED

GNSS LED

Cellular Link LED

Cellular Signal Strength LEDs

Data LED

5v dc Power Input

Top Light Sensor

LAN Ethernet Ports

WAN Ethernet Port

LAN

WAN

Battery LED

Power LED