Oxygen 3 Plus (WiFi) Wireless Gateway

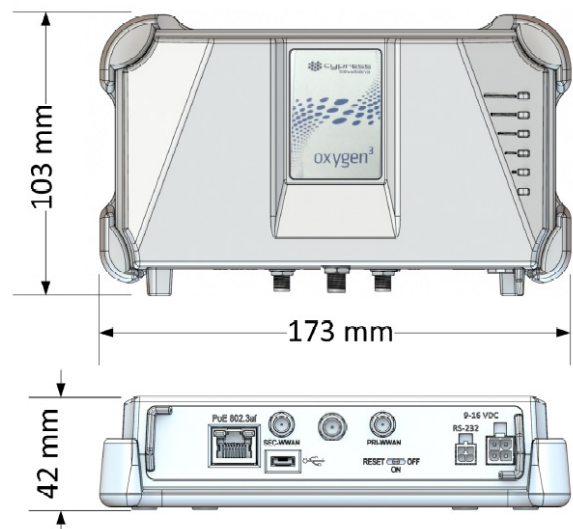For Enterprise Business Connectivity.

LTE Category 6 for Advanced Speeds

The Oxygen 3 Plus with WiFi is a high bandwidth Category 6 cellular gateway built for LTE avanced speed applications. The wireless gateway is well-suited for fixed site commercial communications such as point of sale, banking and wireless failover.

As the Oxygen 3 Plus can easily be integrated in sophisticated branch networking environments, your business can continue to deliver exceptional level of service to your customers even at the face of a power outage. With the Oxygen 3 Plus gateways installed, you can gain a faster return on investment and cost savings in annual IT networking expenses. In addition, the costs of terrestrial circuits are also eliminated, in which the circuits are often susceptible to breakdown.

Features

- Ease of integratation into sophisticated branch networking environments
- Provides higher rate of deployment success
- Embedded radio
- Simplified installation through industry standard PoE 802.3af
- Cloud based device management
- Easy integration into existing network management systems and RF
- Site assessment systems using SNMP
- Best in class RF assessment survey mode for optimal device placement using built in battery
- Minimize disruptions during power outages with built-in battery: Up to 7 hours of battery life

103 mm

173 mm

42 mm

Wireless Cellular

- LTE (category 6: FDD: Band 2, 4, 5, 7, 12, 13, 25, 29, 30, 66)
- WCDMA (bands: II,IV,V)
- HSDPA (category: 14) HSUPA (category 6)
- DC-HSPA+(category 24)
- On board logic for always on, always connected operation
- Embedded radio design

Maximum Throughput

- LTE:-FDD: 300 Mbps
- TDD: 222Mbps
- WCDMA 42.2 Mbps

Wi-Fi

- IEEE 802.11a/b/g/n
- 2.4/5GHz, single antenna
- Security: Supports WPA, WPA2, TKIP WPA-Radius/EAP

Ports

- 1 x Gigabit Ethernet auto MDI/MDIx (RJ45)
- USB 2.0 device support (Micro USB)
- MIMO, primary and auxilliary (SMA), Wifi RF port (RPSMA)
- 1 x Wi-Fi RF port
- 1 x serial port (RS-232)

LED Status Indicators

- Power
- RF Quality
- IP/Data
- Cellular network 3G/4G

Power

- 9-16 VDC with transient (spike) protection,12 volt nominal
- Locking power connector
- 300-400 mA @ 12V power consumption
- PoE (802.3af compliant)
- 1A AC power adaptor included

Integrated Battery

- 6-7 hours under normal operations

Hardware

- 1GHz Super Scalar ARM Cortex processor
- 256 MB RAM

Environmental

MIL-STD-810G:

- Clause 501.5: Procedure II – High Temp (+75°C operational test)
- Clause 502.5: Procedure II - Low Temp (-35°C operational test)
- Clause 503.5: Procedure I-C - Thermal Shock (+75°C to -35°C operational test)
- Clause 507.5: Procedure II - Humidity 95% RH operational test

MIL-STD-810F:

- Method 514.5C - Random Vibration freq. range 5-500 Hz, 0.008 g2/hz spectral density
- Method 516-I - Shock - 40g, 11ms, saw-tooth pulse shape, 3-axis operational test

Software

General

- DCHP client/server
- DNS (static or carrier-provided)
- Supports secondary IP address on Ethernet port for overlay monitoring networks

Modes of Operation

- Pass-through
- NAT
- Site survey mode

Access control

- Built-in firewall
- Easy-to-use per interface access rules
- Custom static routes
- Dynamic DNS (multiple providers or custom settings)

Authentication

- Local password
- RADIUS support

Management

- Cloud based device management system
- Full SNMP support (including extensive custom vendor MIB)
- SNMP trap support
- Site survey RF assessment compatible
- IPerf
- Syslog (remote and local)
- Event logging

Other

- NTP support
- Data counter synchronization to billing cycle
- Background traffic generator
- Fail-safe configuration
- Configuration management
- Modem failure check
- SMS control
- IPsec

Certifications

- FCC, CE, IC, PTCRB, applicable carriers

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