

Oxygen 3 Wireless Gateway with Wifi

Enterprise Business Connectivity



Product Features

- Advanced business features capable of integrating into sophisticated branch networking environments.
- Primary and backup connectivity for branch networking
- Highly flexible device with fast throughput: provides higher rate of success.
- Embedded radio.
- Simplified installation through industry standard PoE 802.3af.
- Cloud based device monitoring
- Easy integration into existing Network Management systems and RF site assessment systems using SNMP.
- Wifi 2.4, 5G GHz Compliant to IEEE 802.11b/g/n
- Best in class Site survey mode and optimal ease of placement using built in battery.
- Minimize disruptions during power outages with built-in battery: Up to 7 hours of battery life.

Business Benefits

- Increase competitive advantage
- Time to market for communications can be achieved in days versus weeks or months
- Network availability
- Businesses can continue to deliver a high level of service and communications to customers and stakeholders
- Cost containment
- Eliminate costly terrestrial circuits which are often susceptible to breakdown.
- Rapid return on investment and cost savings in annual IT networking expenses

Wireless

- LTE (category: 3; bands 2,4,5,13,17,25)
- WCDMA (bands: II,IV,V)
- HSDPA (category: 14) HSUPA (category 6)
- DC-HSPA+(category 24)
- Fall back to GSM/GPRS where available
- On board logic for always on, always connected operation.
- Embedded radio design

Maximum Throughput

- LTE 100 Mbps
- WCDMA 42.2 Mbps

WiFi

- Wireless Standards
IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
- Frequency Range (2.4GHz, 5GHz)
- Data Rates
IEEE 802.11 b, IEEE 802.11g, IEEE 802.11n
- Security: Supports WPA, WPA2, TKIP
WPA-Radius/EAP

Ports

- 1 x Fast Ethernet auto MDI/MDIx (RJ45)
- USB 2.0 device support (Micro USB)
- MIMO, Primary and auxiliary ,Wifi RF port (SMA)
- 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 operation

Hardware

- 800 Mhz 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

Certifications

- FCC, CE, IC, PTCRB, Applicable carriers

Software

General

- DHCP 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

Wireless

- Allows for network type selection (2G/3G/4G)
- Allows for LTE band selection
- Connection watchdog and idle timeout

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 systems
- 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
- GRE

