

# Improve Enterprise Business Continuity with Oxygen™ 3 Wireless Gateway

## Overview

Network continuity is a key component to managing organizations' voice and data transactions. Any disruptions or failures can be detrimental to their mission critical applications.

Cypress Solutions' Oxygen™ 3 gateway delivers best-in-class primary as well as back-up wireless connectivity to support business continuity and disaster recovery strategies. Designed with an embedded radio and a built-in back-up battery, this device provides the reliability and flexibility required by enterprises (and their branch networks) to maintain business as usual status during outages.

Previously manufactured by Agilink Systems Corp., Oxygen 3 is the first product release since Cypress Solutions acquired the company in 2013. It combines rugged and industrial functionality from our Chameleon CTM product with agile and advanced enterprise wireless technology from the newly acquired Oxygen product family.

*Right: Cypress Solutions' new Oxygen™ 3 wireless gateway.*



## Product Features

- Advanced business features, capable of handling very large fleets of kiosks and ATMs.
- Highly flexible device with fast throughput: provides higher rate of success.
- Embedded radio.
- Interface with branch back-up applications.
- Simplified installation through industry standard PoE 802.3af.
- SNMP Network monitoring and management capabilities such as site assessment services.
- Minimize disruptions during power outages with built-in battery: Up to 3 hours of battery life.

## Business Benefits

- **Increase competitive advantage**
  - Enable business continuity for a wide range of data and voice applications.
  - Reduce lead time for communications to days.
- **Maintain stakeholder engagement**
  - Businesses can continue to deliver the usual high level of service and communications to customers and stakeholders.
- **Cost containment**
  - Eliminate costly terrestrial circuits which are often susceptible to breakdowns.
  - Rapid return on investment in cost savings in annual IT networking expenses.

# Product Specifications

Hardware	
<b>Wireless</b>	<ul style="list-style-type: none"> <li>LTE (category: 3; bands: 2,4, 5, 17)</li> <li>WCDMA (bands: II, IV, V)</li> <li>HSDPA (category: 14)</li> <li>HSUPA (category 6)</li> <li>DC-HSPA+ (category 24)</li> <li>Embedded radio design</li> </ul>
<b>Ports</b>	<ul style="list-style-type: none"> <li>1 x Fast Ethernet, auto MDI/MDIx (RJ45)</li> <li>USB 2.0 device support (Micro USB)</li> <li>Primary and auxiliary RF Port (SMA)</li> </ul>
<b>LED status Indicators</b>	<ul style="list-style-type: none"> <li>Power</li> <li>RF Quality</li> <li>IP/Data</li> <li>Cellular network 3G/4G</li> </ul>
<b>Built-in battery back-up</b>	<ul style="list-style-type: none"> <li>3 - 4 hours under normal conditions</li> </ul>
<b>Power</b>	<ul style="list-style-type: none"> <li>DC 12V, 1A AC adapter</li> <li>PoE (802.3af compliant)</li> </ul>
<b>Maximum throughput</b>	<ul style="list-style-type: none"> <li>LTE 100 Mbps</li> <li>WCDMA 42.2 Mbps</li> </ul>
<b>Internal CPU</b>	<ul style="list-style-type: none"> <li>800MHz ARM-based CPU</li> <li>256 RAM</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>FCC, CE, PTCRB, AT&amp;T</li> </ul>
<b>Operating environment</b>	<ul style="list-style-type: none"> <li>Temperature: -30°C to +70°C</li> <li>Humidity: 0% - 95%</li> </ul>
Software	
<b>General</b>	<ul style="list-style-type: none"> <li>DCHP client/server</li> <li>DNS (static or carrier-provided)</li> <li>Supports secondary IP address on Ethernet port for overlay monitoring networks</li> </ul>

## About Cypress Solutions

Cypress Solutions is a privately-owned wireless product developer and solution provider for industrial and commercial applications. For nearly 20 years, we have helped companies implement best-in-class industry solutions that seamlessly integrate wireless technologies with their existing systems. With headquarters in Vancouver, BC, Cypress Solutions was recently ranked by Canadian Business and PROFIT 500 as one of the fastest growing companies in 2014.

Software (continue)	
<b>Modes of operation</b>	<ul style="list-style-type: none"> <li>Pass-through</li> <li>NAT</li> </ul>
<b>Wireless</b>	<ul style="list-style-type: none"> <li>Allows for network type selection (2G/3G/4G)</li> <li>Allows for LTE band selection</li> <li>Connection watchdog and idle timeout</li> </ul>
<b>Access control</b>	<ul style="list-style-type: none"> <li>Built-in firewall</li> <li>Easy-to-use per interface access rules</li> <li>Custom static routes</li> <li>Dynamic DNS (multiple providers or custom settings)</li> </ul>
<b>Authentication</b>	<ul style="list-style-type: none"> <li>Local password</li> <li>RADIUS support</li> </ul>
<b>Monitoring</b>	<ul style="list-style-type: none"> <li>Full SNMP support (including extensive custom vendor MIB)</li> <li>SNMP trap support</li> <li>Syslog (remote and local)</li> <li>Event logging</li> </ul>
<b>Other</b>	<ul style="list-style-type: none"> <li>NTP support</li> <li>Cloud-based device management application</li> <li>Site survey assessment</li> <li>Background traffic generator to prevent wireless network dormancy</li> <li>Store and revert to fail-safe configuration</li> <li>Upload/download configuration files</li> <li>Modem failure check</li> <li>SMS control</li> </ul>

## Contact Us

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