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Product Bulletin

PB00037HE

OWL 3G Industrial Cellular Router

New single box solution for routing and security provides secure and reliable remote access in an increasingly connected world.

The OWL 3G Industrial Cellular Router offers increased routing functionalities and advanced security capabilities in a single, reliable product. Its Web interface supports a rich set of configurations and the enhanced software technologies make it easy to customize.

- **Optimal network performance –** redundancy provided by dual SIM cards and two Ethernet ports guarantees the highest network availability in harsh conditions, along with best-in-class integrated firewall protection to address growing security concerns.
- **Easily configurable and customizable –** while remaining simple to configure and use with minimal product knowledge, its open LINUX platform allows for advanced customization.
- **Reliable remote access –** remote access to widely distributed machines, industrial equipment and mobile applications enables customers to monitor and control industrial equipment remotely. This minimizes time-consuming on-site visits and delivers cost savings.

The OWL 3G is designed for industrial applications where hardened, industrial-grade solutions are required to deliver high-performance routing, while ensuring network security.

Applications

The new OWL 3G has a comprehensive set of features designed for use in power transmission and distribution and machine building settings.

Due to its ability to securely and reliably connect an Ethernet network to the Internet, the OWL 3G is a key solution for companies taking advantage of Industrial Internet of Things (IIoT) technologies.

The OWL 3G solution is also relevant for other industrial sectors, including water and wastewater, wind and solar power, security, and transportation.

Your Benefits

The OWL 3G is a reliable routing and security solution for industrial applications. The router's configuration reduces total infrastructure costs by combining functionalities; decreases potential failure points; and makes overall management and monitoring easier.

As machine builders, system integrators and automation vendors search for easy and cost-effective ways to monitor and troubleshoot machines without going on-site or creating connections where wired networks are not feasible, the OWL 3G's cellular capabilities become vastly important. Problems can be solved quickly and support costs can be drastically reduced with the OWL 3G's remote access capabilities.

A new product to serve your needs.
Be certain.

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Solve problems quickly and cost efficiently with new industrial router's remote capabilities.

The OWL 3G is equipped with two Ethernet 10/100 ports, offering greater configuration and customization. Its two SIM card holders back up communication in mobile operator networks and provide failover to one another, enhancing overall network availability.

The 3G Universal Mobile Telecommunications System (UMTS)/High Speed Packet Access (HSPA)+ router supports creation of virtual private network (VPN) tunnels using technologies, including IPsec, OpenVPN and Layer 2 Tunneling Protocol (L2TP), to ensure secure communication. A web interface provides robust statistics and a detailed log of the 3G router's activities and signal strength.

Benefits at a Glance

- Two-in-one solution offering both routing and security capabilities
- Hardened for substations
- EN 301 511, EN 301 908-1/-2/-13, E8, EN 60 950 and CE compliant
- Operating environment of -40 °C to +70 °C
- Advanced routing and networking functions
- Dual SIM cards use two different network operations in combination with the automatic switchover function
- Open LINUX platform
- Secure VPN Tunneling (OpenVPN, IPsec VPN) through X.509 authentification
- Supports functions: DHCP, NAT, NAT-T, DynDNS, NTP, VRRP, control by SMS

Technical Information

Product Description	
Type	**OWL 3G-S20TT9999209SDAHHXX.X.**
Description	UMTS/HSPA+, GSM/GPRS/EDGE router
Port Type and Quantity	2 x LAN ports 10/100BaseTX, RJ45
Order No.	942 145-001
Radio Technology	
Antenna Connector	2 x SMA jack antenna connectors
Antenna Configuration	Main + Rx Div
Frequency Band	Quad-Band GSM: 850/900/1800/1900 MHz Five-Band UMTS/HSPA+: 800/850/900/1900/2100 MHz
Transfer Rate (max)	14.4 Mbps down, 5.76 Mbps up
SIM-cards	Two SIM card holders, Dual-SIM fail over functionality • Switch SIM on disconnect • Switch SIM on roaming • Switch SIM on remaining data volume
Communication Interfaces	
Ethernet	2 x 10/100BASE-TX ports
Power Requirements	
Operating Voltage	12 V DC to 24 V DC
Power Consumption	2.3 to 5.5 W
Ambient Conditions	
Operation Temperature	-40 °C to +70 °C
Storage/Transport Temperature	-40 °C to +85 °C
Relative Humidity (non-condensing)	max. 95%
Mechanical Construction	
Dimensions (W x H x D)	42 x 113.5 x 80.5 mm
Mounting	DIN Rail
Weight	280 g
Protection Class	IP30
Software	
VPN Tunneling	OpenVPN (Client/Server), IPsec VPN (Client/Server), L2TP (Client/Server), GRE
Security	HTTPs, Firewall (SPI), NAT, X.509
Diagnostics & Configuration	SNMP, DHCP (Client/Server) network status, syslog, DynDNS, NTP (Client/Server), HiDiscovery
Redundancy	VRRP, ping monitoring with route failover
Configuration Management	Upload/download configuration, change configuration based on SMS
Approvals	
Safety of Industrial Control Equipment	EN 60950-1
Radio	Europe: • EN 301 511, Radio Requirements GSM • EN 301 908-1 & EN 301 908-2, Radio Requirements UMTS/HSPA • EN 62311, Human Exposure restrictions for EM-Fields
Transportation	E8 (road vehicle approval)
Environmental	EN 61000-6-2, EN 301 489, EN 61131 for use in automation environment

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com

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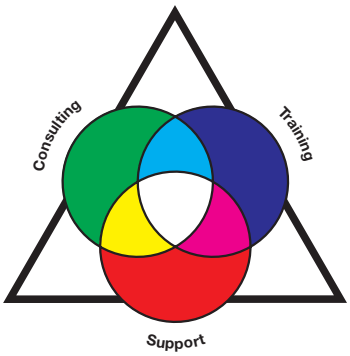

As the complexity of communication and connectivity solutions has increased, so have the requirements for design, implementation and maintenance of these solutions. For users, acquiring and verifying the latest expert knowledge play a decisive role in this. As a reliable partner for end-to-end solutions, Belden offers expert consulting, design, technical support, as well as technology and product training courses, from a single source: Belden Competence Center. In addition, we offer you the right qualification for every area of expertise through the world's first certification program for industrial networks. Up-to-date manufacturer's expertise, an international service network and access to external specialists guarantee you the best possible support for products from Belden, GarrettCom, Hirschmann, Lumberg Automation and Tofino Security.

Irrespective of the technology you use, you can rely on our full support – from implementation to optimization of every aspect of daily operations.

Always Stay Ahead with Belden

In a highly competitive environment, it is crucial to have reliable partners who are able to add value to your business. When it comes to signal transmissions, Belden is the number one solutions provider. We understand your business and want to know your specific challenges and targets to see how effective signal transmission solutions can push you ahead of the competition. By combining the strengths of our five leading brands, Belden, GarrettCom, Hirschmann, Lumberg Automation and Tofino Security, we are able to offer the solution you need. Today it may be a single cable, a switch or a connector, thus solving a specific issue; tomorrow it can be a complex range of integrated applications, systems and solutions.

About Belden

Belden Inc., a global leader in high quality, end-to-end signal transmission solutions, delivers a comprehensive product portfolio designed to meet the mission-critical network infrastructure needs of industrial, enterprise and broadcast markets. With innovative solutions targeted at reliable and secure transmission of rapidly growing amounts of data, audio and video needed for today's applications, Belden is at the center of the global transformation to a connected world. Founded in 1902, the company is headquartered in St. Louis, USA, and has manufacturing capabilities in North and South America, Europe and Asia.

For more information, visit us at www.beldensolutions.com and follow us on Twitter @BeldenInc.

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