



# HIRSCHMANN

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## Product Bulletin

PB00064AG

### OWL LTE Industrial Cellular Router

New single box solution for routing and security provides protected and reliable remote access in an increasingly connected world. It is designed for wireless mobile network communication that makes use of LTE, HSPA+, UMTS, EDGE or GPRS technologies.



**The OWL LTE 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. The high speed data transfer (LTE) and rich set of interfaces (RS232, USB interface, Digital I/Os, SD card slot and an integrated GPS module) make the product very flexible for different applications.
- **Easily configurable and customizable** – intuitive web interface for configuration and open LINUX platform for advanced customization.
- **Reliable remote access** – minimizes time-consuming onsite visits and saves costs by enabling customers to remotely monitor and control widely distributed machines, industrial equipment and mobile applications.

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

#### Applications

The new OWL LTE has a comprehensive set of features that make this router an ideal solution for wireless connection of smart grid assets (meters, switches, controllers), traffic and security IP camera systems, remote data

loggers, flow meters and sensing equipment, individual computers, LAN networks, building and process controllers, automatic teller machines (ATMs), and other self-service terminals.

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

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

#### Your Benefits

The OWL LTE 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 onsite or creating connections where wired networks are not feasible, the OWL LTE's cellular capabilities become vastly important. Problems can be solved quickly and support costs can be drastically reduced with the OWL LTE's remote access capabilities.

**A new product to serve your needs. Be certain.**



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## OWL LTE Industrial Cellular Router

The OWL LTE 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 OWL LTE router supports creation of virtual private network (VPN) tunnels using different technologies, including IPsec, OpenVPN and Layer 2 Tunneling Protocol (L2TP, PPTP and GRE), to ensure secure communication. A web interface provides robust statistics and a detailed log of the LTE router's activities and signal strength. Flexible management methods Web/SNMP/SMS and CLI provide excellent device management, mass configuration and troubleshooting tools.

### Benefits at a Glance

- Two-in-one solution offering both routing and security capabilities
- 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
- Rich set of interfaces (RS232, USB interface, Digital I/Os, SD card slot and an integrated GPS module)
- Open LINUX platform for scripting and extensive device configuration
- Secure VPN Tunneling (OpenVPN, IPsec VPN) through X.509 authentication
- Supports functions: DHCP, NAT, NAT-T, DynDNS, NTP, VRRP, control by SMS

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





## Technical Information

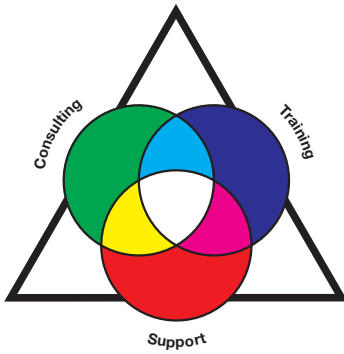
Product Description	
Type	OWL LTE-S20TTA12121GTAHXX.X.XX
Description	LTE, UMTS/HSPA+, GSM/GPRS/EDGE Router
Port Type and Quantity	2 x LAN ports 10/100BaseTX, RJ45
Order No.	942 146-001
Radio Technology	
Antenna Connector	3 x SMA jack antenna connectors
Antenna Configuration	Main + Rx Div + GPS (supports active antennas)
Frequency	Dual Band GSM/GPRS/EDGE (2G): 900/1800 MHz Tri Band UMTS/HSPA+ (3G): 900/1800/2100 MHz      FDD-Band (8, 3, 1) Penta Band LTE: 800/900/1800/2100/2600 MHz      FDD-Band (20, 8, 3, 7, 1)
Transfer Rate (max)	100 Mbps Download, 50 Mbps Upload
SIM-cards	Two SIM card holders, Dual-SIM fail over functionality <ul style="list-style-type: none"> <li>• Switch SIM on disconnect</li> <li>• Switch SIM on roaming</li> <li>• Switch SIM on remaining data volume</li> </ul>
Communication Interfaces	
Ethernet	2 x 10/100BASE-TX-Ports
USB	2.0 USB host
I/O	2 x opto-coupled digital Inputs (max. 60 V DC , max. 7 mA) 1 x opto-coupled digital Output (max. 60 V AC/DC, max. 300 mA)
Serial	1 x RS232
SD	1 x MicroSD, SDHC up to 32 GB, SDXC from 32 GB up to 64 GB
GPS	Protocol: NMEA 0183 v3.0 Frequency: 1575.42 MHz Sensitivity : -161 dBm
Power Requirements	
Operating Voltage	12 V DC to 48 V DC, PoE+ Powered device (IEEE 802.3at, Type 2, Class 4)
Power Consumption	6.5 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)	56 x 122 x 97 mm
Mounting	DIN Rail
Weight	390 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
Scripting	LINUX scripting (Bash, Python)
Customization	User Module (C, C++)
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](http://www.hirschmann.com)



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## Belden Competence Center

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.belden.com](http://www.belden.com) and follow us on Twitter [@BeldenIND](https://twitter.com/BeldenIND).

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Phone 1-855-400-9071

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