**Product:** OWL 4G North America

LTE Ethernet Gateway, USA, Canada, VPN, Dual SIM, Serial, IO, Vehicles (E-Mark)

**Product Description**
Industry 4.0 and Industrial IoT Cellular Router and Gateway. Optimized for 4G applications with edge pre-computing. VPN and openly programmable and extendable Linux. Rugged and approved for vehicles.

**Technical Specifications**

| Type: | OWL-L02.01-W00.00-F01-U01-A02-VXX.X.XX |
| Name: | OWL 4G North America |
| Description: | Industry 4.0 and Industrial IoT Cellular Router and Gateway. Optimized for 4G distributed applications with edge pre-computing. VPN and openly programmable and extendable Linux. |
| Part Number: | 942284001 |
| Availability: | Available |
| Port type and quantity: | 2x Ethernet, 2x Antenna, 2x SIM, 1x Power, 2x I/O, 2x Serial |
| Serial: | On 10-pin panel socket (connector included): RS485, RS232, Serial2TCP, Serial2UDP |
| Country certification: | USA, Canada |
| Processor: | ARMv7 |
| Hard disk space: | Flash memory (512MB User data storage, 830MB User module storage) |
| RAM: | 512MB |

**More Interfaces**

| SIM Cards: | 2x 2FF (3V, 1.8V), only one active at a time, can be configured independently, automatic switch on connection failure |
| Ethernet: | 2x Ethernet: 10/100 Mbit/s (RJ45) |
| Power Supply: | Via 2-pin terminal block 3.5mm (included) |
| Signaling contact: | On 10-pin panel socket (connector included): Digital Input, Digital Output |

**Radio technology**

| Antenna connector: | 2 x SMA Female (Cellular, Diversity) |
| Frequency band: | WCDMA: 850(Band 5) / 1700(Band 4) / 1900(Band 2) MHz, LTE (4G): 600(Band 71) / 700(Bands 12,13,14) / 850(Band 5) / 1700(Band 4,66) / 1900(Band 2) MHz |
| Transmission rate: | LTE Category 4: 150Mbps Download, 50 Mbps Upload |

**Power requirements**

| Current consumption: | Idle 2.5 W, Average 4 W, Maximum 11 W |
| Operating Voltage: | 9 V DC to 36 V DC |
| Redundancy functions: | Dual VRRPv2 (with ping probes), Dual VRRPv3 (with ping probes), multiple routed interfaces (ping monitoring, failover and load balancing), PPPoE bridge mode |

**Diagnostics features**

| Modules and components: | User modules as separate downoad: Lua, Python, NodeRED |
| Monitoring: | Syslog (UDP), SNMPv1/2/3 |

**Security features**

| Authentication: | User Management (local, RADIUS, TACACS+, mixed) |
| Stateful inspection firewall: | Static Firewall IPv4/IPv6 with Incoming and Forwarding Ruleset, DoS protection |
Service

Other services:
- DHCP Server (IPv4/IPv6, dynamic and static leases, IPv6 Prefix Delegation, DNS proxy)
- DynDNS client
- PPoE
- FTP server
- E-Mail via SMTP
- SMS (notifications and commands)
- Telnet server

Software

Operating system: Custom embedded Linux with Busybox Shell

VPN: OpenVPN, IPsec, GRE, L2TP, PPTP

Switching: VLAN (via Scripting), tunneled VLANs (via Scripting), IGMP

Management: HTML5, SSH, SNMPv1/2c/3, Automatic configuration and firmware fetch from a web- or ftpserver, backup and restore with drag & drop

Diagnostics: One click support report package, System log, Linux kernel log, reboot log, signal strength history (60 days), SSSH linux shell, Signal strength LED indicators

Configuration: Simple to edit text file configuration, HTTP, HTTPS, SMS, SSH, Telnet, 4 Configuration Profiles, automatic via web/ftp, SNMPv1/2c/3

Security: HTTPs, SSH, Authentication with RADIUS or TACACS+, activate cellular interface with SMS, Ethernet 802.1X (EAP-PEAP/MsCHAPv2 or EAP-TLS)

Time synchronisation: SNTP Client, SNTP Server, Battery for RTC (CR1225)

Routing: Static unicast routing, Multinetting, IP masquerading, Port forwarding, Multiple routes with priority and load sharing, 1:1 NAT

Dynamic routing: Dual VRRPv2 (with ping probes), Dual VRRPv3 (with ping probes), multiple routed interfaces (ping monitoring, failover and load balancing)

Ambient conditions

MTBF (MIL-HDBK-217F-2, parts count): 55.2 Years

Degree of Protection when Installed: IP30

Operating temperature: -40-+65 °C

Storage/transport temperature: -40-+85 °C

Relative humidity (non-condensing): 0-95 %

Mechanical construction

Dimensions (WxHxD): 145x32x105 mm

Weight: 510 g

Housing: Metal

Mounting: DIN Rail and Wall mounting

Protection class: IP30

Approvals

Safety of industrial control equipment: UL/EN/AS/NZS 62368-1:2014 (formerly EN 60950-1)

Transportation: E8 (vehicles) , EN 45545-1 (fire) , EN 45545-2 HL1/HL2/HL3


Scope of delivery and accessories

Accessories: 942042105 Indoor LTE Antenna , 942117001 50Ohm terminator for cellular antenna , 943662015 Rail Power Supply

Scope of delivery: Device, DIN rail clip, wall mount wings, 2-pin power connector, 10-pin connector for i/O and RS232/RS485

Further Instructions

Product Documentation: https://www.doc.hirschmann.com

Certificates: https://www.doc.hirschmann.com/certificates.html

Update and Revision: Revision Number: 0.53 Revision Date: 01-08-2021

© 2021 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.