

## Product: [OWL 4G Australia + WLAN](#)



LTE Ethernet Gateway, Australia, New Zealand, WLAN, VPN, GPS, 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. 11ac Wave 2 WLAN, GPS, VPN and openly programmable and extendable Linux. Rugged and approved for vehicles.

### Technical Specifications

#### Product description

Type:	OWL-L04.01-W04.01-F02-U01-A02-VXX.X.XX
Name:	OWL 4G Australia + WLAN
Description:	Industry 4.0 and Industrial IoT Cellular Router and Gateway. Optimized for 4G distributed applications with edge pre-computing. VPN and open extendable Linux. Integrated WLAN 802.11ac.
Part Number:	942285101
Port type and quantity:	2x Ethernet, 2x Antenna, 1x GPS, 2x SIM, 1x Power, 2x I/O, 2x Serial, 2x WLAN
Serial:	On 10-pin panel socket (connector included): RS485, RS232, Serial2TCP, Serial2UDP
Radio protocol:	IEEE 802.11ac Wave 2 (2x2 MIMO), 802.11d, 802.11e, 802.11h, 802.11i, 802.11r
Country certification:	Australia, New Zealand
Processor:	ARMv7
Hard disk space:	Flash memory (512MB User data storage, 830MB User module storage)
RAM:	512MB

#### Product Life Cycle

Availability:	Available
Discontinuation Announcement Date:	2023-12-12
Last Order Date:	2024-06-01
Last Delivery Date:	2024-10-01
Last Service Date:	2029-12-01

#### More Interfaces

SIM Cards:	2 x 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:	3 x SMA Female (Cellular, Diversity, GPS), 2x RP-SMA Female (WLAN)
Frequency band:	GPRS/EDGE (2G): 800/900/1800/1900 MHz, TD-SCDMA: 850/900/1900/2100 MHz, UMTS/HSPA+ (3G): 850(Band 5) / 900(Band 8) / 1900(Band 2) / 2100(Band 1), LTE (4G): 700(Band 28) / 850(Band 5) / 900(Band 8) / 1700(Band 4) / 1800(Band 3) / 1900(Band 2) / 2100(Band 1) / 2600(Band 7)
Transmission rate:	LTE Category 4: 150Mbps Download, 50 Mbps Upload
Additional radio features:	GNSS (GPS, GLONASS)

#### 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 pre-installed: GPS, User modules as separate download: Lua, Python
Monitoring:	Syslog (UDP) , SNMPv1/2c/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 , PPPoE , 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), SSH 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), GPS
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:	520 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
Radio:	AS/NZS CISPR 32:2015, AS/CA S042:2018 + AS/CA S042.1:2018, AS/CA S042:2018 + AS/CA S042.4:2018

Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)
------------	---

WLAN Access Point

Access Point Functionality:	Yes, open and secured (WEP, WPA-PSK, WPA-Enterprise, WPA2-PSK, WPA2-Enterprise, 802.1X - Radius with EAP-PEAP/MsCHAPv2 or EAP-TLS), AP and Client function can be used in parallel (only on the same channel, AP channel takes priority)
Number of SSIDs:	1
Max. Number of Connected Clients:	50

WLAN Client

Client / STA Functionality:	Yes, open and secured (WEP, WPA-PSK, WPA-Enterprise, WPA2-PSK, WPA2-Enterprise, 802.1X - Radius with EAP-PEAP/MsCHAPv2 or EAP-TLS), AP and Client function can be used in parallel (only on the same channel, AP channel takes priority)
-----------------------------	--

Scope of delivery and accessories

Accessories:	942042105 Indoor LTE Antenna , 942042108 Indoor GPS antenna , 942117001 50Ohm terminator for cellular antenna , 943981015 2x2 WLAN Through-hole 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:	<a href="https://www.doc.hirschmann.com">https://www.doc.hirschmann.com</a>
Certificates:	<a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a>
Software Download:	<a href="https://hirschmann-support.belden.com/en-US/downloads">https://hirschmann-support.belden.com/en-US/downloads</a>

History

Update and Revision:	Revision Number: 0.107 Revision Date: 03-20-2024
----------------------	--

Variants

Item #	Type
942285101	OWL 4G Australia + WLAN

© 2024 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.