HIRSCHMANN
A **BELDEN** BRAND

Product: OWL 3G ☒

LTE Ethernet Gateway, Europe, VPN, GPS, Dual SIM, MicroSD

Product Description

Industry 4.0 and Industrial IoT Cellular Router and Gateway. Optimized for 3G applications with edge pre-computing. VPN and openly programmable and extendable Linux.

Technical Specifications

Product description

Type:	OWL 3G-S20TT9999209SDAHHXX.X.XX
Name:	OWL 3G
Description:	Industry 4.0 and Instustrial IoT Cellular Router and Gateway. Optimized for 3G applications with edge pre-computing. VPN and open extendable Linux.
Part Number:	942145001
Port type and quantity:	2x Ethernet, 1x Antenna, 1x Diversity, 2x SIM, 1x Power
Country certification:	Europe (Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, Latvia, Lituania, Luxembourg, Malta, Netherland, Poland, Portugal, Romania, Sweden, Slowakia, Slowenia, Spain), Iceland, Liechtenstein, Norway, Switzerland, Turkey

Product Life Cycle

Availability:	Discontinued -Last order date 12. November 2020
Last Order Date:	2020-11-12

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)

Radio technology

Antenna connector:	2 x SMA Female (Cellular, Diversity)
Frequency band:	GSM/GPRS/EDGE (2G): 850/900/1800/1900 MHz, UMTS/HSDPA/HSUPA/HSPA+ (3G): 800/850/900/1900/2100 MHz
Transmission rate:	HSPA+: 14,4 Mbps Download, 5,76 Mbps Upload

Power requirements

Current consumption:	Reception: 2.3 W, GPRS: 3.5 W, UMTS: 5.5 W
Operating Voltage:	12 V DC to 24 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

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
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: Gb 25 ºC):	67.2 Years
Degree of Protection when Installed:	IP30
Operating temperature:	-40-+70 °C
Storage/transport temperature:	-40-+85 °C
Relative humidity (non-condensing):	0-95 %

Mechanical construction

Dimensions (WxHxD):	42x114x81 mm
Weight:	280 g
Housing:	Metal
Mounting:	DIN Rail
Protection class:	IP30

Approvals

Safety of industrial control equipment:	EN 60950-1
Safety of information technology equipment:	EN 60950-1
Environmental:	EN 61000-6-2, EN 301 489, EN 61131 for use in automation environment
Radio:	EN 301 511, EN 300 440-2, EN 301 908(-1,-2,-13)

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, power connector

Further Instructions

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

History

Update and Revision:	Revision Number: 0.131 Revision Date: 05-02-2023

Variants

Item #	Type
942145001	OWL 3G-S20TT9999209SDAHH01.0.