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Product information
OWL LTE M12 - OWL LTE M12-S20T5A12221GTDBHHXX.X.XX

Industrial Ethernet:Industrial Cellular Router:Devices:OWL LTE M12

http://dev-catalog.beldensolutions.com/link/57078-24455-437763-501778-488181/en/conf/uistate

Name	OWL LTE M12
	LTE, UMTS/HSPA+, GSM/GPRS/EDGE Router with M12 interfaces
Delivery informations	
Availability	available
Product description	
Description	LTE, UMTS/HSPA+, GSM/GPRS/EDGE Router with M12 interfaces
Port type and quantity	2 x LAN ports 10/100BaseTX, M12
Type	OWL LTE M12-S20T5A12221GTDBHHXX.X.XX
Order No.	942 147-002
Radio technology	
Antenna connector	3 x SMA jack antenna connectors
Antenna Configuration	Main + Rx Div and MIMO DL 2x2 + GPS (supports active/passive antennas)
Frequency band	Dual Band GSM (2G): 900/1800; Dual Band UMTS (3G): 900/2100 MHz - FDD-Band (8,1); Penta Band LTE (4G): 800/900/1800/2100/2600 MHz - FDD-Band (20,8,3,7,1)
Transfer Rate (max)	LTE Cat.4: 150 Mbit/s Download, 50 Mbit/s Upload; DC-HSPA+: 42 Mbit/s
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, 4-pin D-coded M12
USB interface	2.0 USB host, 5 pin A-coded M12
I/O configuration	2 x opto-coupled digital Inputs (max. 60 V DC , max. 7 mA); 2 x opto-coupled digital Outputs (max. 60 V AC/DC, max. 300 mA), 8-pin A-coded M12
Serial (RS232, RS422, RS485)	1 x RS232, 8-pin A-coded M12 (TXD, RXD, DCD, DTR, DSR, RTS, CTS and GND)
SD-card slot	1 x MicroSD, SDHC up to 32 GB, SDXC from 32 GB up to 64 GB
GPS	Protocol: NMEA-0183 V3.10; Frequency: 1575.42 MHz; Sensitivity: -162 dBm GPS receiver optional with embedded dead reckoning for innovative navigation solution even if the GPS signal is temporarily lost.
Power requirements	
Operating voltage	12 V DC to 48 V DC, 5 pin A-coded M12
Power over Ethernet (PoE)	available on request
Power consumption	4 to 11 W
Ambient conditions	
Operating temperature	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 85 ℃
Relative humidity (non-condensing)	max. 95%
MTBF	38 years (MIL-HDBK-217F)
Mechanical construction	
Dimensions (W x H x D)	203 x 58.2 x 113.1 mm
Mounting	Wall mounting
Weight	855 g
Protection class	IP40
Software	
VPN Tunneling	OpenVPN (Client/Server), IPsec VPN (Client/Server), L2TP (Client/Server), GRE
Security	HTTPs, Firewall (SPI), NAT, X.509
Diagnostics and Configuration	SNMP, DHCP (Client/Server) network status, syslog, DynDNS, NTP (Client/Server), HiDiscovery
Redundancy functions	VRRP, ping monitoring with route failover
Configuration Management	Upload/download configuration, change configuration based on SMS

GNSS	Multi-GNSS receiver, can support GPS, GLONASS, Galileo, BeiDou and QZSS. The optional embedded dead reckoning provides the user with accurate estimates of vehicle's position and velocity when GNSS information is lost or not available by combining the integrated speed and heading sensor data into the solution.
SIP	GSM calls via Session Initiation Protocol (SIP) (RFC 3261)
Scripting	LINUX scripting (Bash, Python)
Customization	Application specific user modules are avalaible (RIP, OSPF, BGB, SCEP, modem emulation, …) or could be developed using (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	EN 50155, EN 50121-4, EN 45545-2 HL3, E8 (road vehicle approval)
Environmental	EN 61000-6-2, EN 301 489, EN 61131 for use in automation environment

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The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.