

BulletCAT4-GL - 4G/LTE Ethernet/Serial/USB Gateway

The BulletCAT4-GL provides a feature packed, compact industrial strength wireless solution using ultra fast LTE technology for critical data communications. The BulletCAT4-GL provides up to 150 Mbps download and 50 Mbps upload for today's data intensive applications. The BulletCAT4-GL provides features such as Global band support with fallback, Dual SIM, Gigabit Ethernet, RS232/485 Serial Data, 2x Programmable I/O and Standalone GPS.

CAT4 LTE w/Fallback

Dual SIM w/Failover

Standalone GPS

Gigabit Ethernet

Programmable I/O

RS232/485 Serial Port



Features

- Ultra Fast 4G/LTE Operation
- Up to 150 Mbps Downlink / 50 Mbps Uplink Over Air
- Global Band Support w/Fallback
- IP Pass-through Mode
- Data Usage Alerts (Email, SMS)
- Firewall with ACL Security, DMZ & Port Forwarding
- 2x Programmable Analog/Digital Inputs or 2 Digital Outputs
- IPSec, GRE / VPN Tunneling
- RS232/485 Serial Data/Console Port
- 10/100/1000 Ethernet (PoE)
- Standalone GPS (TCP Server, UDP Reporting, SMTP)
- SMS Support: Ethernet (Telnet), Alerts
- Wide Operating Temperature (-40°C to +85°C)
- User interface via telnet or web browser
- Microhard NMS Support



BulletCAT4-GL Specifications

Supported Bands	LTE FDD: B1,B2,B3,B4,B5,B7,B8,B12,B13, B18,B19,B20,B26,B28 TDD: B38,B39,B40,B41 WCDMA: B1,B2,B4,B5,B8,B6,B19 GSM: B2/B3/B5/B8	Firewall	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ
Cellular Data Features*	LTE FDD: Up to 150 Mbps DL, 50 Mbps UL LTE TDD: Up to 130 Mbps DL, 35 Mbps UL DC-HSPA+: Up to 42 Mbps DL, 5.7 Mbps UL WCDMA: Up to 384 Kbps DL, 384 Kbps UL EDGE: Up to 296 Kbps DL, 236.8 Kbps UL GSM: Up to 107 Kbps DL, 85.6 Kbps UL	Management	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Serial/Telnet), Microhard NMS Support, Data Usage Alerts, SSH
<small>*Module Standalone Laboratory Performance</small>		Diagnostics	RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow
Serial Interface	RS232/485 Serial Data Port	Input Voltage	5 - 30VDC or Passive PoE on LAN Reverse polarity protection
Serial Baud Rate	300bps to 921kbps	Connectors:	Antenna 3x SMA Female (Cell, Cell Div, GPS) Data RJ-45 (Ethernet) 4 PIN Interlock (Vin, I/O) DB9 RS232/485 USB Micro-AB SIM Dual Sim Tray 1.8 / 3.0V (Nano (4FF))
Serial Port Server	Extensive Serial Port Support: TCP Server/ Client / UDP Server/Client / Modbus / SMTP	Environmental	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
Ethernet	10/100/1000 BaseT, Auto-MDI/X IEEE 802.3	Weight	Approx. 150 grams
I/O	2x Programmable Analog/Digital Inputs or 2x Digital Outputs	Dimensions	Approx. 1.75" x 3.25" x 1.0" (45mm x 85mm x 25mm)
USB (OTG)	USB 2.0 USB (Device)	Approvals	FCC/IC PTCRB UL Hazloc (C1D2) CE EN301908-1, EN301908-2, EN301908-13 EN303413, EN301489-1, EN301489-52 EN 62311, EN55032, EN55035, EN62368 RCM: Australia & New Zealand RoHS Compliant Carrier Specific Approvals
GPS	TCP/UDP/Email Reporting, GpsGate, TAIP		
	GNSS Systems GLONASS, BeiDou & Galileo GPS Protocols NMEA 0183 V3.0 Acquisition Sensitivity -145 dBm (Cold-start) Tracking Sensitivity -160 dBm (Open Sky/Active-patch Antenna) Accuracy <2m CEP-50 (Open sky, 1 Hz tracking) Standalone time to first fix 1s/29s/32s (hot/warm/cold) Total number of SVs ~55 SVs		
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots		
Carrier Connection	Dial on Demand, PAP, CHAP, Idle Time, ICMP Keep Alive, DDNS IP pass-through, Wireless Connection Timeout.		
Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Slave (TCP/Serial)		
Security	VPN, IPSec with IKE/ISAKMP; Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, Site to Site Tunneling L2TP, GRE, HTTPS, RADIUS		

Order Options

Model BulletCAT4-GL

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