

Bullet-LTE - 4G/LTE Ethernet/Serial/USB Gateway

The all new Bullet-LTE provides a feature packed, compact industrial strength wireless solution using the new and ultra fast 4G LTE network infrastructure for critical data communications. The Bullet-LTE takes things to the next level by providing features such as Ethernet, RS232 Serial Data, 2x Programmable I/O and Standalone GPS.

4G LTE w/Fallback

Firewall / ACL / VPN

Standalone GPS

10/100 Ethernet

Programmable I/O

RS232 Serial Port



Features

- Ultra Fast 4G/LTE Operation
- Up to 100Mbps Downlink / 50 Mbps Uplink Over Air
- 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 Serial Data Port
- 10/100 Ethernet (PoE)
- USB OTG Port (Host, Console, NDIS, Serial Data)
- 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



Bullet-LTE

Specifications

Supported Bands	LTE FDD (Bands 1-5,7,8,13,17,18,19,20) UMTS DC-HSPA+ (Bands 1,2,4,5,8) GSM GPRS EDGE (Bands 2,3,5,8) 3GPP Protocol Stack Release 9	Firewall	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ
Data Features	LTE: DL 100 Mbps, UL 50 Mbps HSPA+: DL 42 Mbps, UL 5.7 Mbps HSPA+: DL 21 Mbps, UL 5.7 Mbps WCDMA: DL/UL 384 kbps EDGE Class 33: DL/UL 236.8 kbps GPRS Class 33: DL/UL 85.6kbps	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
Serial Interface	RS232 Serial Data Port	Diagnostics	RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow
Serial Baud Rate	300bps to 921kbps	Input Voltage	7 - 30VDC or Passive PoE on LAN Reverse polarity protection
Serial Port Server	Extensive Serial Port Support: TCP Server/Client / UDP Server/Client / Modbus / SMTP	Connectors:	Antenna 3x SMA Female (Cell, Cell Div, GPS) Data RJ-45 (Ethernet) 4 PIN Interlock (Vin, I/O) DB9 RS232 USB Micro-AB SIM 1.8 / 3.0V
Ethernet	10/100 BaseT, Auto - MDI/X IEEE 802.3	Environmental	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
I/O	2x Programmable Analog/Digital Inputs or 2x Digital Outputs	Weight	Approx. 150 grams
USB (OTG)	USB 2.0 USB Console Port USB to Serial Data Routing USB to Ethernet Data Routing (NDIS) USB OTG (Host)	Dimensions	Approx. 1.75" x 3.25" x 1.0" (45mm x 85mm x 25mm)
GPS	TCP Server, UDP/Email Reporting, GpsGate Navigation Update Rate Up to 5 Hz Accuracy Position: 2.5 m CEP SBAS: 2.0 m CEP Acquisition Cold Starts: 27 seconds Aided Started: 4 seconds Hot Starts: 1 seconds Sensitivity Tracking : -159 dBm (Active/Passive Antenna) Cold Starts: -147 dBm Hot Starts: -156 dBm	Approvals	FCC IC PTCRB Carrier Specific Approvals
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	Order Options	
Carrier Connection	Dial on Demand, PAP, CHAP, Idle Time, ICMP Keep Alive, DDNS IP pass-through, Wireless Connection Timeout.	MHS117400	Bullet-LTE 4G Cellular Gateway
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		

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