

BulletLTE-NA2 - 4G/LTE Ethernet/Serial/USB Gateway

The BulletLTE-NA2 provides a feature packed, compact industrial strength wireless solution using the ultra fast 4G LTE technology for critical data communications. Supporting commonly used North America Bands the BulletLTE-NA2 provides up to 150 Mbps for today's data intensive applications. The BulletLTE-NA2 provides features such as Ethernet, RS232 Serial Data, 2x Programmable I/O and Standalone GPS.

4G/LTE

Firewall / ACL / VPN

Standalone GPS

10/100 Ethernet

Programmable I/O

RS232 Serial Port



Features

- Ultra Fast 4G/LTE Operation
- Up to 150 Mbps 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



BulletLTE-NA2 Specifications

Supported Bands	LTE FDD: B2,B4,B5,B12,B13,B14,B66,B71 WCDMA: B2,B4,B5	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	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 Serial Data Port	Input Voltage	7 - 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 USB Micro-AB SIM 1.8 / 3.0V
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 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 Console Port USB to Serial Data Routing USB to Ethernet Data Routing (NDIS) USB OTG (Host)	Approvals	FCC/IC PTCRB
GPS	TCP Server, UDP/Email Reporting, GpsGate	Order Options	
Navigation Update Rate	Up to 5 Hz	Model	BulletLTE-NA2
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 (Active/Passive Antenna)	Tracking : -159 dBm Cold Starts: -147 dBm Hot Starts: -156 dBm		
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		

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