

## BulletCATM-G2 - CATM NB2-IoT LTE Gateway

The BulletCATM-G2 was engineered specifically for the small size, low cost, and low power requirements of the IoT & M2M applications that are surging across the globe. The BulletCATM-G2 provides robust and reliable LTE Category M1/NB2-IoT connections with upload speeds up to 1119kbps and downloads of up to 588kbps. The BulletCATM-G2 features Ethernet, RS232/485 Serial Data, and VPN Tunneling Capabilities all while retaining low power consumption.

*LTE CAT M1*

*NB2-IoT*

*Low Cost!*

*PoE (802.3af)*

*IPv6 & IPv4 Support*

*RS232/485 Serial Port*



## Features

- **Robust & Reliable LTE CATM Operation**
- **Engineered for IoT Applications**
- **Low Cost & Ultra Low Power Consumption**
- **Up to 1119 kbps Upload / 588 kbps Download**
- **Data Usage & Systems Alerts**
- **Firewall with ACL Security, DMZ & Port Forwarding**
- **IPSec, GRE / VPN Tunneling**
- **RS232/485 Serial Console/Data Port**
- **10/100 Ethernet w/PoE (802.3af)**
- **Full IPv6 & IPv4 Support**
- **MQTT Support**
- **Wide Operating Temperature (-40°C to +85°C)**
- **User interface via SSH or HTTP/HTTPS web browser**
- **Microhard NMS Support**



# BulletCATM-G2 Specifications

<b>Supported Bands</b>	LTE CAT M1 / CAT NB2 / EGPRS  LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/ B18/B19/B20/B25/B26(M1 Only)/ B27 (M1 Only)/B28/B31*/B66/ B71 (NB2 Only)/B72*/B73*/B85  EGPRS: 850/900/1800/1900MHz	<b>Input Voltage</b>	7 - 48VDC PoE (802.3af)
<b>Cellular Data Rates*</b>	LTE Cat M1: Max. 588 kbps (DL) Max. 1119 kbps (UL) LTE Cat NB1: Max. 32 kbps (DL) Max. 70 kbps (UL) LTE Cat NB2: Max. 127 kbps (DL) Max. 158.5 kbps (UL) EDGE: Max. 296 kbps (DL) Max. 236.6 kbps (UL) GPRS: Max. 107 kbps (DL) Max. 85.6 kbps (UL)	<b>Connectors:</b>	Antenna SMA Female Data RJ-45 (Ethernet) 4 PIN Interlock (Vin) DB9 RS232 USB Micro-AB SIM Nano (4FF) 1.8 / 3.0V
<small>*Module Standalone Laboratory Performance</small>		<b>Environmental</b>	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
<b>Serial Interface</b>	RS232/485 Serial Data Port	<b>Weight</b>	~135 grams
<b>Serial Baud Rate</b>	300bps to 230kbps	<b>Dimensions</b>	~1.75" x 3.25" x 1.0" (45mm x 85mm x 25mm)
<b>Serial Port Server</b>	Extensive Serial Port Support: TCP Server/ Client / UDP Server/Client / Modbus / SMTP	<b>Approvals</b>	FCC/IC PCTCRB RoHS Compliant Carrier Specific Approvals
<b>Ethernet</b>	10/100 BaseT, Auto - MDI/X IEEE 802.3	<b>Order Options</b>	
<b>USB</b>	USB 2.0 Tethering	<b>CA-MHK117650</b>	BulletCATM-G2
<b>Carrier Connection</b>	ICMP Keep Alive, DDNS	<b>CA-MHK117652</b>	BulletCATM-G2 w/Acc Kit
<b>Network Protocols</b>	IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Slave (TCP/Serial), MQTT		
<b>Security</b>	VPN, IPSec with IKE/ISAKMP; Multiple tun- nel support; 3DES and up to 256-bit AES Encryption, Site to Site Tunneling, L2TP, Open VPN), GRE, HTTPS, RADIUS		
<b>Firewall</b>	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Au- thentication, DMZ		
<b>Management</b>	Telnet, WebUI, SNMP V1/2/3, Wireless Up- grade (HTTP/FTP), RADIUS authentication, AT Command Interface (Serial/Telnet), Mi- crohard NMS & IoT Portal Support, Data Usage Alerts, SSH		
<b>Diagnostics</b>	RSSI, Ec/No, Temperature, Remote diag- nostics, Watchdog, UDP Event Reporting, Netflow		

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