

## BulletCAT1 - IoT 10Mbps CAT1 LTE Gateway

The BulletCAT1 was engineered specifically for the small size, low cost, and low power requirements of the IoT & M2M applications that are booming across the globe. The BulletCAT1 provides robust and reliable CAT1 LTE connections with speeds of up to 10 Mbps. The BulletCAT1 features Ethernet, RS232 Serial Data, and Tunneling Capabilities all while retaining ultra low power consumption.

*CAT1 - 10 Mbps LTE*

*Low Power Usage*

*Low Cost!*

*Ethernet Port*

*IPv6 & IPv4 Support*

*RS232 Serial Port*



## Features

- **Fast & Robust CAT1 LTE Operation**
- **Engineered for IoT Applications**
- **Low Cost & Ultra Low Power Consumption**
- **Up to 10 Mbps Downlink / 5 Mbps Uplink Over Air**
- **Data Usage & Systems Alerts (Email, SMS)**
- **Firewall with ACL Security, DMZ & Port Forwarding**
- **IPSec, GRE / VPN Tunneling**
- **RS232 Serial Console/Data Port**
- **10/100 Ethernet**
- **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**



# BulletCAT1

# Specifications

<b>Supported Bands</b> (North America/AT&T)	LTE UE CAT1: B2 [1900], B4 [AWS1700], B12 [700] 3GPP Release 9	<b>Current Consumption</b> (@12VDC)	Typical: 40mA ~ 120mA
<b>Cellular Data Features*</b> <small>*Module Standalone Laboratory Performance</small>	LTE CAT1: DL Up to 10Mbps, UL Up to 5Mbps	<b>Input Voltage</b>	7 - 30VDC
<b>Serial Interface</b>	RS232 Serial Data Port	<b>Connectors:</b>	Antenna 2x SMA Female (Main, Diversity) Data RJ-45 (Ethernet) 4 PIN Interlock (Vin) DB9 RS232 USB Micro-AB SIM Nano (4FF) 1.8 / 3.0V
<b>Serial Baud Rate</b>	300bps to 921kbps	<b>Environmental</b>	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
<b>Serial Port Server</b>	Extensive Serial Port Support: TCP Server/Client / UDP Server/Client / Modbus / SMTP	<b>Weight</b>	Approx. 135 grams
<b>Ethernet</b>	10/100 BaseT, Auto - MDI/X IEEE 802.3	<b>Dimensions</b>	Approx. 1.75" x 3.25" x 1.0" (45mm x 85mm x 25mm)
<b>USB</b>	USB 2.0 USB (Device)	<b>Approvals</b>	FCC / IC PTCRB Carrier Specific Approvals
<b>SMS</b>	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	<b>Order Options</b>	
<b>Carrier Connection</b>	ICMP Keep Alive, DDNS	<b>Models</b>	BulletCAT1-ATT BulletCAT1-VZN
<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 tunnel support (16); 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 Authentication, DMZ		
<b>Management</b>	Telnet, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Serial/Telnet), Microhard NMS Support, Data Usage Alerts, SSH		
<b>Diagnostics</b>	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow		

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