

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

Supported Bands (North America/AT&T)	LTE UE CAT1: B2 [1900], B4 [AWS1700], B12 [700] 3GPP Release 9	Current Consumption (@12VDC)	Typical: 40mA ~ 120mA
Cellular Data Features* <small>*Module Standalone Laboratory Performance</small>	LTE CAT1: DL Up to 10Mbps, UL Up to 5Mbps	Input Voltage	7 - 30VDC
Serial Interface	RS232 Serial Data Port	Connectors:	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
Serial Baud Rate	300bps to 921kbps	Environmental	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
Serial Port Server	Extensive Serial Port Support: TCP Server/Client / UDP Server/Client / Modbus / SMTP	Weight	Approx. 135 grams
Ethernet	10/100 BaseT, Auto - MDI/X IEEE 802.3	Dimensions	Approx. 1.75" x 3.25" x 1.0" (45mm x 85mm x 25mm)
USB	USB 2.0 USB (Device)	Approvals (Pending)	FCC / IC PTCRB
SMS	SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	Order Options	
Carrier Connection	ICMP Keep Alive, DDNS	Models	BulletCAT1-ATT BulletCAT1-VZN
Network Protocols	IPv4, IPv6, TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Slave (TCP/Serial), MQTT		
Security	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		
Firewall	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ		
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		
Diagnostics	RSSI, Ec/No, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow		

Contact Information

Microhard Systems Inc.
150 Country Hills Landing N.W.
Calgary, AB, Canada T3K 5P3

Email: info@microhardcorp.com
Tel: (403) 248-0028
Fax: (403) 248-2762

Copyright 2018 Microhard Systems Inc.
Specifications subject to change without notice.

