

Bullet-3G - Low Cost 3G/HSPA+ Ethernet/Serial/USB Gateway

The all new Bullet-3G provides a feature packed industrial strength wireless solution using ultra fast 3G/HSPA+ network infrastructure for critical data communications. The compact size, and low cost of the Bullet takes things to the next level by packing in features such as a Ethernet Port, RS232 Serial Data Port and 2x Programmable I/O.

Low Cost

3G/HSPA/HSPA+

IPSec / VPN, GRE

10/100 Ethernet

Programmable I/O

RS232 Serial Port



Features

- **Fast 3G / HSPA / HSPA+ Operation**
- **Up to 21 Mbps Downlink / 5.76 Mbps Uplink Over Air**
- **Firewall with ACL Security, DMZ and Port Forwarding**
- **IPSec, GRE / VPN Tunneling**
- **Data Usage Alerts (SMS, Email)**
- **10/100 Ethernet (PoE)**
- **RS232 Serial Data Port**
- **USB OTG Port (Host, Console, NDIS, Serial Data)**
- **2 x Programmable Analog/Digital Inputs or 2 x Digital Outputs**
- **SMS Support: Serial, Ethernet (Telnet), Alerts, Reboots**
- **Wide Operating Temperature (-40°C to +85°C)**
- **User interface via telnet or web browser**
- **Local and remote wireless firmware upgradable**
- **Microhard NMS Support**



Bullet-3G

Specifications

Supported Bands	UMTS/HSPA FDD Bands [MHz] - Six band Band I (2100 MHz), Band II (1900 MHz), Band IV (1700 MHz), Band V (850 MHz), Band VI (800 MHz), Band VIII (900 MHz) 3GPP Release 7 5.76 Mb/s uplink, 21.1 Mb/s downlink or 5.76 Mb/s uplink, 7.2 Mb/s downlink	Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP
	GSM - Quad Band 850/900/1800/1900 MHz GSM 850 MHz, E-GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz 3GPP Release 7, PBCCH support	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
Data Features	HSDPA cat 14, up to 21.1 Mb/s DL GPRS multi-slot class 125, coding scheme CS1-CS4, up to 85.6 kb/s DL/UL EDGE multi-slot class 125, coding scheme MCS1-MCS9, up to 236.8 kb/s DL/UL CSD GSM max 9.6 kb/s UMTS max 64 kb/s	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), Scheduled Reboots, Microhard NMS Support, Data Usage Alerts, Power Saving Modes
TX Power	WCDMA/HSDPA/HSUPA Power Class · Power Class 3 (24 dBm) for WCDMA/HSDPA/HSUPA mode GSM/GPRS Power Class · Power Class 4 (33 dBm) for GSM/E-GSM bands · Power Class 1 (30 dBm) for DCS/PCS bands EDGE Power Class · Power Class E2 (27 dBm) for GSM/E-GSM bands · Power Class E2 (26 dBm) for DCS/PCS bands	Diagnostics	RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow
		Input Voltage	7 - 30VDC or, Passive PoE on LAN
Serial Interface	RS232 Serial Data Port	Connectors:	Antenna Data 3x SMA Female (Cell, Cell Div) RJ-45 (Ethernet) 4 PIN Interlock (Vin, I/O) USB SIM DB9 RS232 Micro-AB 1.8 / 3.0V
Serial Baud Rate	300bps to 921kbps	Environmental	Operating Temperature -40°C to +85°C Humidity -40°F to +185°F 5-95%, non-condensing
Serial Port Server	Extensive Serial Port Support: TCP/UDP Server & Client/Modbus/PPP/SMS/SMTP/AT command	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	USB 2.0 USB Console Port USB to Serial Data Routing USB to Ethernet Data Routing (NDIS) USB OTG (Host)	Approvals	PTCRB FCC / IC Carrier Specific Approvals: Bell
Ethernet	10/100 BaseT, Auto - MDI/X IEEE 802.3	Order Options	
SMS	SMS to/from Serial RS232 SMS to/from Ethernet via Telnet SMS Alerts SMS Remote Reboots	Models	MHS115850 Bullet-3G
Carrier Connection	Dial on Demand, PAP, CHAP, Idle Time, ICMP Keep Alive, DDNS IP pass-through		

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

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