MultiModem[®] GPRS

Cellular Modems

Benefits

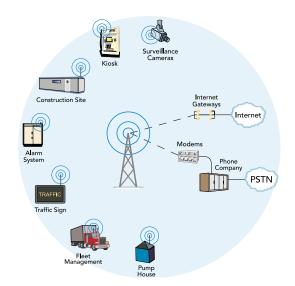
- Rugged industrial chassis design
- Desktop or panel mounting
- Carrier approved
- RS-232 and USB interfaces



The MultiModem[®] GPRS cellular modem offers standards-based quad-band GSM/GPRS Class 10 performance. This ready-to-deploy, standalone modem provides wireless data communication and integrates seamlessly with virtually any application. It is available with RS-232 and USB interfaces to address your application needs. The MultiModem GPRS cellular modem is based on industry-standard open interfaces and can be desktop or panel mounted.

Features

- GPRS Class 10
- Quad-band 850/900/1800/1900 MHz
- Packet data up to 85.6K bps
- Embedded TCP/IP stack
- Circuit-switched data up to 14.4K bps transparent and non-transparent
- Short Message Services (SMS)
- RS-232 and USB interfaces
- SMA antenna connector and SIM socket
- Serial interface supports DTE speeds to 115.2K bps
- AT command compatible
- MNP2 error correction, V.42bis compression
- Numerous LEDs provide operational status
- Desktop or panel mounting
- PTCRB certified
- Carrier approved
- Two-year warranty





Highlights

- **Applications.** With packet data speeds up to 85.6K bps, the MultiModem GPRS cellular modem is targeted at applications which periodically need to send or receive data over a wireless network. It is ideal for:
- Automated machine-to-machine (M2M)
- Public Safety/Emergency Services
- Public Transit
- Remote Industrial, Medical, Environmental, Monitoring
- Remote diagnostics
- Security Systems
- Telemetry/Remote Metering
- Vehicle Tracking/Fleet Management/AVL
- **Reduces Development Time.** The MultiModem GPRS cellular modem can make your existing and next generation device communication-ready without requiring any hardware changes to its design. It actually provides faster timeto-market because it relieves the burden and expense of obtaining PTCRB and RF approvals. This complete, ready-todeploy cellular modem allows you to enhance your product while you focus on developing its core features.
- **Packet-switched Data.** The MultiModem GPRS cellular modem supports GPRS Class 10 packet-switched data. This enables mobile Internet functionality by allowing interworking between the existing Internet and the cellular network at speeds up to 85.6K bps. Any service that is used over the fixed Internet today – File Transfer Protocol (FTP), web browsing, chat, e-mail, telnet is available over the cellular network as well. It includes support for PBCCH, coding schemes: CS1 to CS4 and is compliant with SMG31bis.
- **Circuit-switched Data.** The MultiModem GPRS cellular modem also supports GSM circuit-switched data connections. Circuit-switched data connections support speeds up to 14.4K bps, as well as MNP 2 error correction, V.42bis compression. CSD cellular connections are ideal for applications that require a quick wireless replacement of an existing point-to-point analog dial-up connection. They integrate seamlessly with your current application requiring little infrastructure change.
- **Short Message Services.** The MultiModem GPRS cellular modem offers SMS features such as text and PDU, point-topoint (MT/MO) and cell broadcast.
- **Internet-enabled.** The MultiModem GPRS cellular modem includes an embedded TCP/IP protocol stack to bring Internet connectivity to any device without making changes to its hardware design. Using the Internet protocols and the wireless connection to an IP network, the modem sends and receives data over the Internet.
- Voice Features. The MultiModem GPRS cellular modem provides telephony and Dual Tone Multi Frequency (DTMF) transmission functionality. It also allows for emergency calls as well as echo cancellation and noise reduction (option), and full rate, enhanced Full Rate and Half Rate (FR/EFR/HR).

- **Compatible Supplementary Services.** The MultiModem GPRS cellular modem is compatible with supplementary services such as call forwarding, call barring, multiparty, call waiting and call hold, calling line identification, advice of charge, USSD, closed user group and explicit call transfer.
- **Management Features.** The MultiModem GPRS cellular modem provides advanced management features including phone book management, fixed dialing number, real time clock and alarm management.
- **Industrial Chassis.** The MultiModem GPRS cellular modem is packaged in a rugged, industrial chassis with an SMA antenna connector. It can be desktop or panel mounted and features numerous LEDs providing operational status.
- **Multiple Interface Options.** The MultiModem GPRS cellular modem is available with RS-232 and USB interfaces to address your application needs. Each interface option offers unique features and benefits related to the technology it supports.
- Serial Connectivity. The MultiModem GPRS cellular modem with a serial interface utilizes RS-232 or USB to connect to any serial device to provide access to the Internet. The RS-232 model supports DTE speeds of 115.2K bps and provides a DE-15 voice/data interface and permanent screw-type power connector. The USB model provides for the easiest modem installation. The USB interface features a 12M bps serial connection and utilizes an RJ-9 jack for voice connectivity. In addition, it is host-based USB powered which means no external power supply is required.
- **Industry-standard Modem Commands.** The MultiModem GPRS cellular modem provides industry-standard AT-style commands for ease of integration into your existing software application.
- **Network and RF Approved.** The MultiModem GPRS cellular modem is PTCRB certified. In addition, it has successfully completed worldwide compliance testing for global RF approval.
- **Comprehensive Service and Support.** The Multi-Tech commitment to service means we provide a two-year product warranty and service that includes technical support, 24-hour web site and ftp support.

RS-232/USB Application



Specifications

Packet Data Features

GPRS Class 10, PBCCH support Coding Schemes: CS1 to CS4 Embedded TCP/IP stack

Circuit Switched Data/Fax Features Asynchronous, transparent & non-transparent up to 14.4K bps, MNP2 & V.42bis

SMS Features

Text & PDU, Point-to-Point, cell broadcast

Internet Protocols Supported DNS Resolve, FTP client, IP, IPCP, LCP, PPP (dial-out), TCP

socket, UDP socket, CHAP, PAP

Antenna Connector

RF Antenna: 50 ohm SMA (Female connector)

SIM Connector Standard 3V SIM receptacle

Interface Connectors RS-232 Model: DE-15 USB Model: USB Type B

Power Connectors RS-232: 2.5mm miniature screw USB Model: Bus Powered

Voice Connectors RS-232 Model: Optional Y-cable USB: RJ-9 4-pos modjack

Power Requirements 5V to 32VDC

Physical Description

4.3" L x 2.4" W x 0.94" H; 4.2 oz. (11 cm x 6.1 cm x 2.4 cm; 119g)

Operating Environment -30° to +70° C

Certifications

CE Mark, R&TTE EMC: FCC Part 2, 15, 22, 24, EN 55022, & EN 55024 Safety: cUL, UL 60950, EN 60950 Network: PTCRB

Ordering Information

Product	Description	Region
MTCBA-G*†	GSM/GPRS Class 10 Modem	Global
Ordering Codes		
-F4	850/900/1800/1900 MHz GPRS M	lodem
-U	USB Interface	
-ED	900/1800 MHz Default	
-NAM	Includes US Style Power Cord	
-EU	Includes Euro Style Power Cord	
-GB/IE	Includes UK Style Power Cord	
* Use ordering codes for specific build options. Check with your local		

* Use ordering codes for specific build options. Check with your local carrier to see which frequency bands are required. Go to www. multitech.com for detailed product model numbers.

⁺ All build options support 850/900/1800/1900 MHz cellular connectivity. Standard builds default to 850/1900 MHz while the builds that include a -ED in the ordering code default for 900/1800 MHz.

Produced in the US of US and non-US components.

Features and specifications are subject to change without notice.

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