

MultiModem™ GPRS

External Data/Fax/Voice Wireless Modem



Benefits:

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

The Multi-Tech MultiModem GPRS is an external data/fax/voice wireless modem. Designed for global use, it offers standards-based multi-band GSM/GPRS Class 10 performance. This ready-to-deploy, standalone modem allows developers to add wireless communication to products with a minimum of development time and expense. The MultiModem GPRS is based on industry-standard open interfaces, and can be desktop or panel mounted.

Features

- GPRS Class 10
- Dual-band 850/1900 or 900/1800 MHz GSM/GPRS
- Packet data up to 85K bps
- Embedded TCP/IP stack
- Circuit-switched data (GSM) up to 14.4K bps transparent and non-transparent
- GSM Class 1 and Class 2 Group 3 Fax
- Short Message Services (SMS)
- SMA antenna connector and SIM socket
- Desktop or panel mounting
- RS-232 or USB interface
- Serial interface supports DTE speeds to 115.2K bps
- USB bus powered
- AT command compatible
- Carrier approved
- MNP 2 error correction, V.42bis data compression
- Numerous LEDs provide operational status

*A Complete,
Ready-to-deploy,
External Wireless
Modem*

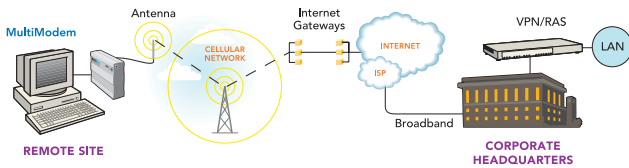
Highlights

Applications. With circuit switched data rates up to 14.4K bps, the MultiModem GPRS is targeted at applications that periodically need to send or receive data over a wireless network. It is an ideal solution for:

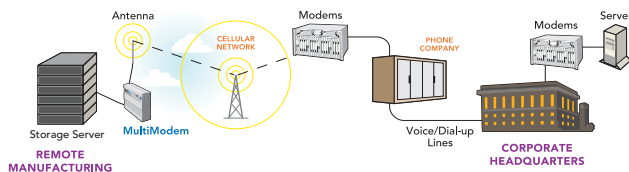
- Appliances
- ATM terminals
- Automotive
- Data collection
- Gas pumps
- Industrial and medical remote monitoring systems
- Remote diagnostics
- Remote metering
- Security systems
- Vending/gaming machines
- Other devices requiring wireless connectivity

Reduces Development Time. The MultiModem GPRS can make your existing and next generation device, machine, or system, communication-ready without requiring any hardware changes to its design. It actually provides faster time-to-market because it relieves the burden and expense of obtaining PTCRB and RF approvals. This complete, ready-to-deploy wireless modem allows you to enhance your product while you focus on developing its core features.

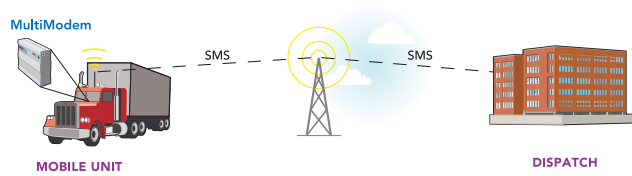
Packet-switched Data. The MultiModem GPRS supports GPRS Class 10 packet-switched cellular data. This enables mobile Internet functionality by allowing interworking between the existing Internet and the cellular network at speeds up to 85K bps. Any service that is used over the fixed Internet today - 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 (CSD). The MultiModem GPRS also supports GSM circuit-switched cellular data connections. Circuit-switched data connections support speeds up to 14.4K bps, Class 1 and Class 2 Group 3 fax, as well as MNP 2 error correction, V.42bis compression. CSD cellular wireless 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 offers SMS features such as text and PDU, point-to-point (MT/MO) and cell broadcast.



Voice Features. The MultiModem GPRS 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 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 provides advanced management features including phone book management, fixed dialing number, real time clock and alarm management.

Industry-standard Modem Commands. The MultiModem GPRS provides industry-standard AT-style commands for ease of integration into your existing software application.

Internet-enabled. The MultiModem GPRS includes an embedded TCP/IP protocol stack to bring embedded Internet connectivity to any device. Using the Internet protocols and the wireless connection to an IP network, it sends and receives data over the Internet. It can also serve a single web page in response to a web browser request.

Industrial Chassis. The MultiModem GPRS is packaged in a rugged, water resistant, industrial chassis with an SMA antenna connector. It can be desktop or panel mounted and features numerous LEDs providing operational status. The RS-232 model has a DE-15 Voice/Data interface and permanent screw-type power connector. The USB model is bus-powered and utilizes a USB interface for data and RJ-12 jack for voice connectivity.

Network and RF Approved. The MultiModem GPRS 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.

Who's Multi-Tech? Multi-Tech is an ISO 9001:2000 certified global manufacturer of award-winning Internet access, remote access, telephony and modem solutions. Since 1970, Multi-Tech has provided corporations in over 135 countries with superior modem technology, delivering the most reliable and highest speed connections possible. Our commitment to providing a quality modem means we test every modem before it leaves our doors. With over 60 U.S. patents and numerous international patents, you can look to Multi-Tech for communication technology innovation.

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, MNP 2, & V.42bis
- Group 3 fax, Class 1 & Class 2

SMS Features:

- Text and PDU, Point to Point, cell broadcast

Connectors:

- RS-232: 15-pin
- USB: USB type B
- Antenna: SMA
- Power: 2.5mm miniature screw on (RS-232 model only)
- Voice: RJ9 4-pos modjack (USB model only)
- SIM: Standard 3V SIM receptable

IP Protocols Supported:

- ARP, Dial-in PPP, DNS Resolve, FTP client, ICMP, IP, IPCP, LCP, POP 3 (receive mail), PPP, SMTP (send mail), TCP socket, Telnet client, Telnet server, CHAP, PAP

Power Requirements:

- RS-232: 5 V to 32VDC; 400mA Average @ 5V, 2A Peak @ 5V
- USB: Bus powered

Physical Description:

- 4.3" w x 2.4" h x 0.94" d; 4.1 oz.
(11 cm x 6.1 cm x 2.4 cm; 115 g)

Operating Environment:

- 30 to +70°C

Certifications:

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

Ordering Information

Product	Description	Region
MTCBA-G-F1*	GSM/GPRS Class 10, 900/1800 MHz	Regional
MTCBA-G-F2*	GSM/GPRS Class 10, 850/1900 MHz	Regional
MTCBA-G-UF1*	GSM/GPRS Class 10, 900/1800 MHz (USB)	Regional
MTCBA-G-UF2*	GSM/GPRS Class 10, 850/1900 MHz (USB)	Regional

* Check with your local carrier to see which frequency bands are required. See our website for carrier specific models and bundle options.

Made in Mounds View, MN, U.S.A.

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World Headquarters

Tel: (763) 785-3500
(800) 328-9717
www.multitech.com

EMEA Headquarters

Multi-Tech Systems (EMEA)
United Kingdom
Tel: +(44) 118-959 7774

Multi-Tech Systems (EMEA)

France
Tel: +(33) 1 64 61 09 81

