ModemModule™ GSM/GPRS

Embedded Data/Fax/Voice Wireless Modem

Benefits:

Compact, rugged industrial chassis design

Board-to-board or board-to-cable mounting

Quick time-to-market

Fully type approved

The Multi-Tech ModemModule GSM/GPRS is a complete, ready-to-integrate, embedded data/fax/voice wireless modem packaged in a compact industrial chassis. Designed for global use, it offers standards-based multi-band GSM/GPRS Class 10 performance. This quick-to-market module allows developers to add wireless communication to products with a minimum of development time and expense. The ModemModule GSM/GPRS is based on industry-standard open interfaces, is fully type approved, and can be board-to-board or board-to-cable mounted.

Features

- GPRS Class 10

- Dual-band 850/1900 or 900/1800 GSM/GPRS

- GSM Class 1 and Class 2 Group 3 FAX

- Board-to-board or board-to-cable mounting

- Short Message Services including text and PDU, point-to-point, cell broadcast

- 14.4K GSM circuit switched data

- MMCX antenna connector and SIM socket

- Serial interface supports DTE speeds to 115.2K

- AT command compatible

- V.42bis data compression

- ME + SIM phone book management

- Fixed dialing number

- SIM Toolkit Class 2

- SIM, network and service provider locks

- Real time clock

- Alarm management

- UCS2 character set management

A Complete, Ready-to-Integrate, Embedded Wireless Modem

MultiTech® Systems

Highlights

Applications. The ModemModule GSM/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

Integration Reduces Space, Power and Cost. The ModemModule GSM/GPRS integrates the controller, RF transceiver, and antenna interface in one compact unit. This integration requires low power, low real estate and provides an overall reduction in costs.

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

Voice Features. The ModemModule GSM/GPRS provides telephony and Dual Tone Multi Frequency (DTMF) functionality. It also allows for emergency calls as well as full rate, enhanced Full Rate and Half Rate (FR/EFR/HR).

Short Message Services. The ModemModule GSM/GPRS offers SMS features such as text and PDU, point-to-point (MT/MO) and cell broadcast.

Compatible Supplementary Services. The ModemModule GSM/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 ModemModule GSM/GPRS provides advanced management features including phone book management, fixed dialing number, real time clock and alarm management.

Specifications

Power Requirements:
   5 V; 400mA Average, 2A Peak

Physical Description:
   2.5" w x 1.8" h x 0.8" d; 2.8 oz.
      (6.4 cm x 4.6 cm x 1.2 cm; 79 g)

Operating Environment:
   -20 - 50°C

Certifications:
   CE Mark
   EMC: FCC Part 2, 15, 22, 24, EN 55022 & EN 55024
   Safety: UL 60950, EN 60950

Ordering Information

Product	Description	Region
MTMMC-G-F1	GSM/GPRS Class 10, 900/1800 MHz	Global
MTMMC-G-F2	GSM/GPRS Class 10, 850/1900 MHz	Global

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

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

ModemModule Pin-Out. The ModemModule GSM/GPRS interfaces easily with existing products through a standard serial communication channel. The complete on-board RF transceiver interfaces with an antenna for direct connection to wireless SMS, circuit-switched dial-up, or packet data networks. The ModemModule is a Data Terminal Equipment (DTE) device with serial asynchronous protocol support. The serial DTE channel is capable of transfer speeds to 115.2K bps and can be interfaced directly to a UART or microcontroller. It can be board-to-board or board-to-cable mounted.

Network and RF Approved. The ModemModule GSM/GPRS has been tested and certified with wireless telecom network providers worldwide. In addition, it has successfully completed worldwide compliance testing for global RF approval.

Developers Kit. The ModemModule GSM/GPRS Developer's Kit allows you to plug in the ModemModule and use it for testing, programming and evaluation. The kit includes one development board with RS-232 DB-25 connector, universal power supply, antenna and RS-232 cable.

MultiTech® **Systems**