阅读申明

1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描叙上的差异，建议读者做出适当判断。
4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.

2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader’ s learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.

3. All product information provided on the website refer to solutions from manufacturers’ technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.

4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with “Datasheets”.

SocketModem® GPRS

Embedded Wireless Modem

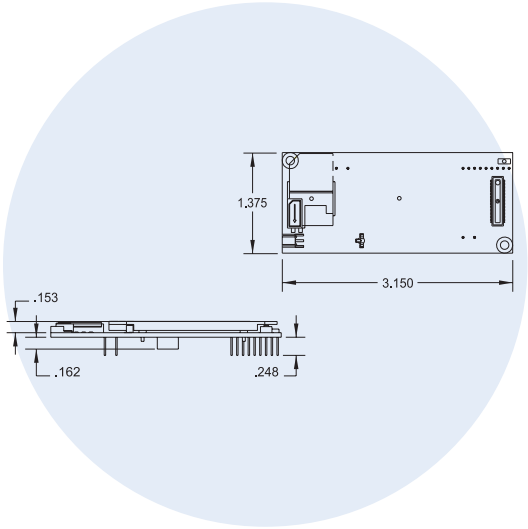
Benefits

- Easy integration
- Quick time-to-market
- Carrier approved
- Universal socket connectivity

The SocketModem® GPRS wireless modem is a complete, ready-to-integrate module that 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 SocketModem GPRS wireless modem is based on industry-standard open interfaces and utilizes Multi-Tech's universal socket design.

Features

- GPRS Class 10
- Dual-band 850/1900 or 900/1800 MHz GSM/GPRS
- Packet data up to 85.6K bps
- Embedded TCP/IP stack
- Circuit-switched data up to 9600 bps transparent and non-transparent
- GSM Class 1 and Class 2 Group 3 Fax
- Short Message Services (SMS)
- Advanced management features include phone book management, fixed dialing number, real time clock and alarm management
- MMCX antenna connector and SIM socket
- SIM card holder
- Serial interface supports DTE speeds to 115.2K bps
- AT command compatible
- MNP 2 error correction, V.42bis compression
- Universal socket connectivity
- Two-year warranty



Multi Tech® Systems

Highlights

Applications. The SocketModem GPRS wireless modem is targeted at applications that periodically need to send or receive data over a wireless network. It is ideal for:

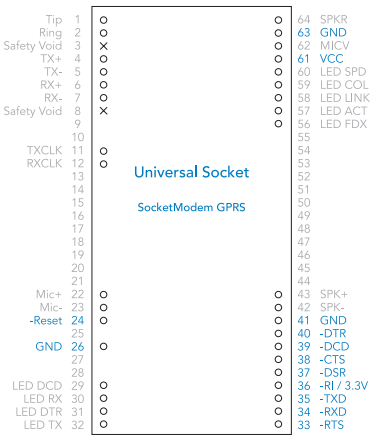
- Appliances
- Asset tracking
- ATM terminals
- Automotive
- Data collection
- Industrial and medical remote monitoring systems
- Remote diagnostics
- Remote metering
- Security systems
- Vending/gaming machines
- Other devices requiring wireless connectivity

Integration Reduces Space, Power and Cost. The SocketModem GPRS wireless modem integrates the controller, RF transceiver, antenna interface and SIM socket in one module. This integration requires low power, low real estate and provides an overall reduction in costs.

Reduces Development Time. The SocketModem GPRS wireless modem enhances your product while you focus on developing its core features. It actually provides faster time-to-market because it relieves the burden and expense of obtaining PTCRB and RF approvals.

Internet-enabled. The SocketModem GPRS wireless modem 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.

SocketModem GPRS Pin-Out. The SocketModem GPRS wireless modem interfaces easily with existing products through a standard serial communication channel. The serial DTE channel is capable of transfer speeds to 115.2K bps and can be interfaced directly to a UART or microcontroller. The complete on-board RF transceiver interfaces with an antenna for direct connection to wireless SMS, circuit-switched dial-up, or packet data networks. It also includes an onboard LED to display network status.



Note: Populated pins are highlighted.

Universal Socket Connectivity. Multi-Tech's Universal Socket flexible comm-port architecture provides analog dial-up, ISDN, wireless or Ethernet socket connectivity with interchangeable modules. This allows you to utilize one system design and populate it with your communication module of choice. In addition, you are assured seamless migration to future technologies.

Developer's Kit. The Developer's Kit allows you to plug in the module 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.

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.42 bis
Group 3 Fax, Class 1 & Class 2

SMS Features

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

Connectors

Antenna: MMCX
SIM: Standard 3V SIM receptacle

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, UDP socket, CHAP, PAP

Power Requirements

5VDC; 300mA typical, 1.3A maximum

Physical Description

3.1" L x 1.4" W x 0.5" H; 1 oz.
(8.0 cm x 3.5 cm x 1.2 cm; 26 g)

Operating Environment

-30° to +70° C

Certifications

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

Ordering Information

Product	Description	Region
MTSMC-G*	GSM/GPRS Modem	Regional

Ordering Codes	Description
-F1	900/1800 MHz GSM/GPRS
-F2	850/1900 MHz GSM/GPRS
-AWS	For AT&T Networks (USA)

* 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.

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

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

3/05 86002038