

## 阅读申明

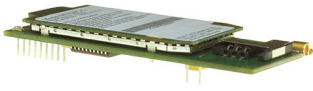
- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

## 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 Cellular Modem



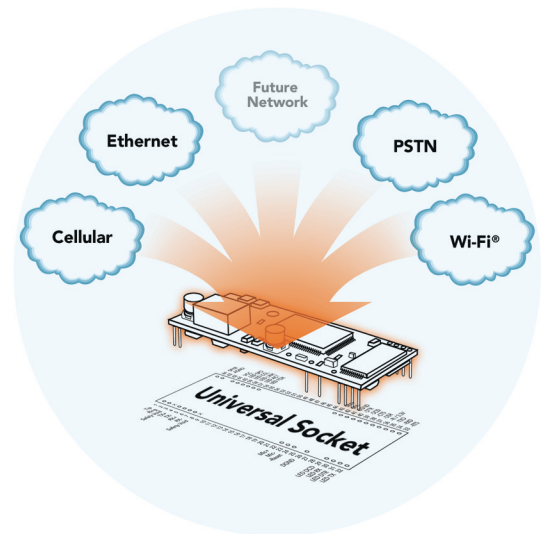
The SocketModem® GPRS cellular modem is a complete, ready-to-integrate, communications device that offers standards-based GSM/GPRS Class 10 performance. This quick-to-market communications device allows developers to add wireless communication to products with a minimum of development time and expense. The intelligence of the embedded Universal IP™ stack, available on certain models, allows for automatic/persistent connectivity for mission critical applications and enhanced M2M functionality. The SocketModem GPRS cellular modem is based on industry-standard open interfaces and utilizes Multi-Tech's Universal Socket design.

### Features

- GPRS Class 10
- Quad-band GSM 850/900/1800/1900 MHz
- Packet data up to 85.6K bps
- Universal Socket connectivity
- Universal IP connectivity
- Circuit-switched data up to 14,400 bps transparent and non-transparent
- 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
- Serial interface supports DTE speeds to 115.2K bps
- AT command compatible
- MNP 2 error correction, V.42bis compression
- Two-year warranty

### Universal Socket Benefits

- Interchangeable communications devices
- Quick-to-market
- Global approvals
- Easy migration to future networks



## Highlights

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

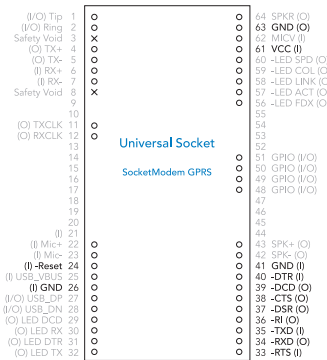
- Appliances
- Asset tracking
- ATM terminals
- Automotive
- Data collection
- Industrial and medical remote monitoring systems
- Remote diagnostics
- Remote metering
- Security systems
- Vending/gaming machines
- Other devices requiring wireless connectivity

**Reduces Development Time.** The SocketModem GPRS cellular 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.

**Universal Socket Connectivity.** Multi-Tech's Universal Socket is a flexible, comm-port architecture that provides cellular, Ethernet, PSTN or Wi-Fi network access with interchangeable communications devices. This means you can utilize one system design and populate it with your connectivity device of choice accommodating multiple connectivity requirements. In addition, you are assured a seamless migration to future technologies.

**Universal IP.** Multi-Tech's Universal IP consists of a common set of TCP/IP networking protocols and machine-to-machine (M2M) applications implemented using a standard AT command interface. Universal IP allows developers to write their host application one time while having the freedom to select from a growing number of Universal Socket communication devices. (Note: standard models contain a basic TCP/IP stack)

**SocketModem GPRS Pin-Out.** The SocketModem GPRS cellular 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.



**Developer's Kit.** The Developer's Kit allows you to plug in the communications device 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 Features

- Asynchronous, transparent & non-transparent up to 14.4K bps, MNP2 & V.42 bis

### SMS Features

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

### Connectors

- Antenna: MMCX
- SIM: Standard 3V SIM receptacle

### IP Protocols Supported (MTSMC-G-F4-IP)

- DNS resolve, FTP client, Ping, POP3 client, PPP (dial-out), SMTP client, TCP RAW client & server, UDP RAW client & server, PAP, CHAP authentication

### M2M Applications (MTSMC-G-F4-IP)

- Automatic connect/reconnect, device monitor, modem emulation, Ping & TCP keep alive, wake-up on Caller ID, wake-up on ring

### Power Requirements

- 5VDC; 400mA typical, 1.4A maximum

### Physical Description

- 3.1" L x 1.4" W x 0.5" H; 1 oz.  
(7.8 cm x 3.5 cm x 1.2 cm; 28 g)

### Operating Environment

- 30° to +70° C (FCC certified from -30° to +50° C)

### Certifications

- CE Mark, R&TTE
- EMC: FCC Part 22, 24, EN 301 489-1, EN 301 489-7, RSS 132, 133
- Safety: UL 60950-1, EN 60950-1, AS/NZS 60950:2000
- Network: PTCRB

## Ordering Information

Product	Description	Region
MTSMC-G-F4*	GSM/GPRS Modem	Global
MTSMC-G-F4-ED†	GSM/GPRS Modem	Global
MTSMC-G-F4-V*	GSM/GPRS Modem with Voice	Global
MTSMC-G-F4-V-ED†	GSM/GPRS Modem with Voice	Global
MTSMC-G-F4-IP*	GSM/GPRS Modem with Universal IP	Global
MTSMC-G-F4-IP-ED†	GSM/GPRS Modem with Universal IP	Global

\* Quad-band Modem, 850/1900 MHz default  
† Quad-band Modem, 900/1800 MHz default

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

Features and specifications are subject to change without notice.

**Trademarks / Registered Trademarks:** SocketModem, Universal IP, Multi-Tech, and the Multi-Tech logo: Multi-Tech Systems, Inc. / All other products and technologies are the trademarks or registered trademarks of their respective holders.

**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 49 19 22 06

