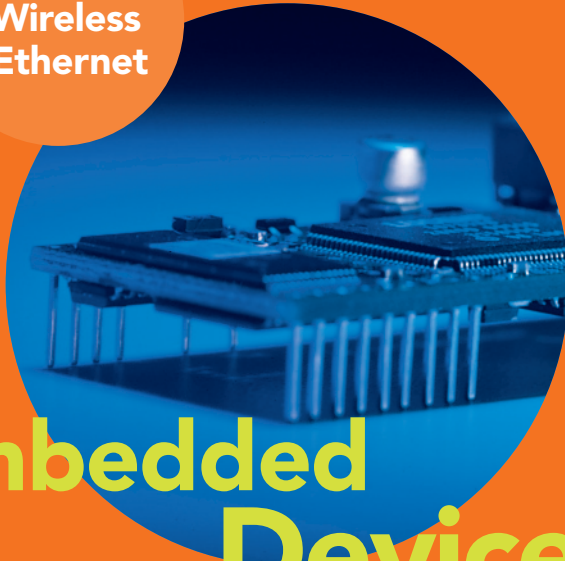


- Dial-up
- Wireless
- Ethernet



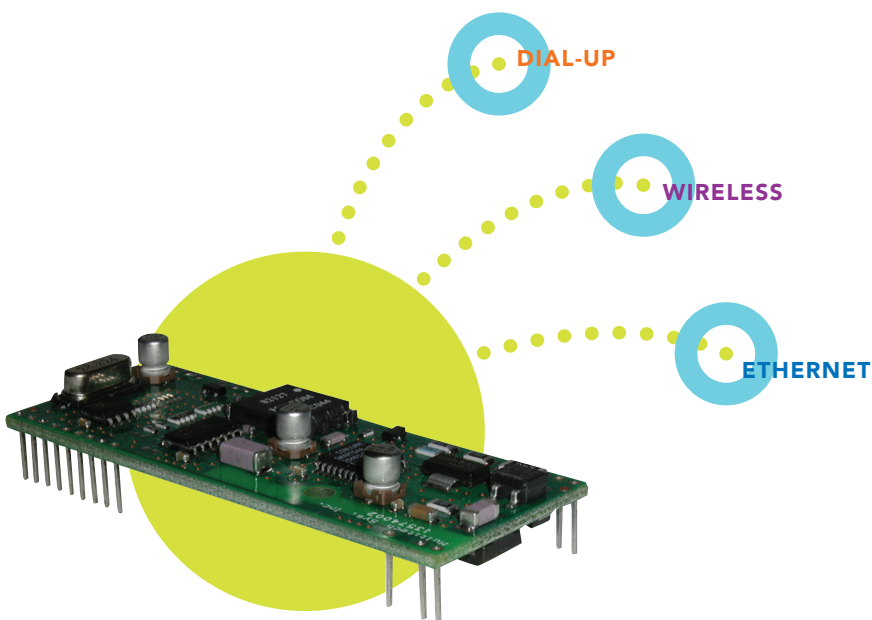
# Embedded Device NetwOrking

COMMUNICATION WITHIN YOUR REACH



# why Universal Socket Connectivity?

Multi-Tech's flexible universal socket comm-port architecture provides **dial-up**, **wireless** or **Ethernet** socket connectivity with **interchangeable modules**. This means you can utilize **one system design** and populate it with your communication module of choice. Now your solution can offer a **full-line of connectivity** options. In addition, you are assured a seamless migration to future technologies.



## COMMUNICATION WITHIN YOUR REACH

**Multi-Tech's embedded device networking solutions instantly add communication ability to your existing or new product with minimal engineering effort. Designed around an innovative universal socket comm-port architecture, Multi-Tech communication modules integrate modem, Internet or wireless functionality into a single, interchangeable, socket design. For a more integrated solution, Multi-Tech offers the ingenious RJModem supplied in a unique RJ-11 form factor. Simply stated, Multi-Tech puts communication solutions within your reach giving you an edge on your competition while accelerating your time-to-market.**



# why SocketModem

**INTERCHANGEABLE SOCKET CONNECTIVITY**  
**QUICK-TO-MARKET SOLUTION**  
**GLOBAL TELECOM COMPLIANCE**  
**INCREASED SYSTEM RELIABILITY**

When evaluating whether you should use an embedded modem, a chipset or a software-based communication solution, you will quickly discover that a SocketModem® embedded modem, is highly economical for almost any application requiring a communication component. With its flexible universal socket architecture, global telecom compliance, and rock-solid performance the SocketModem embedded modem gives you an edge on your competition while accelerating your time-to-market.

Furthermore, Multi-Tech SocketModem embedded modems are backed by three decades of proven modem design and manufacturing experience, setting the standard for quality and performance in the industry. Our commitment to quality means we thoroughly test every modem before it leaves our doors. Today, we deliver the most reliable modems on the market. When it has to work, you can count on Multi-Tech!

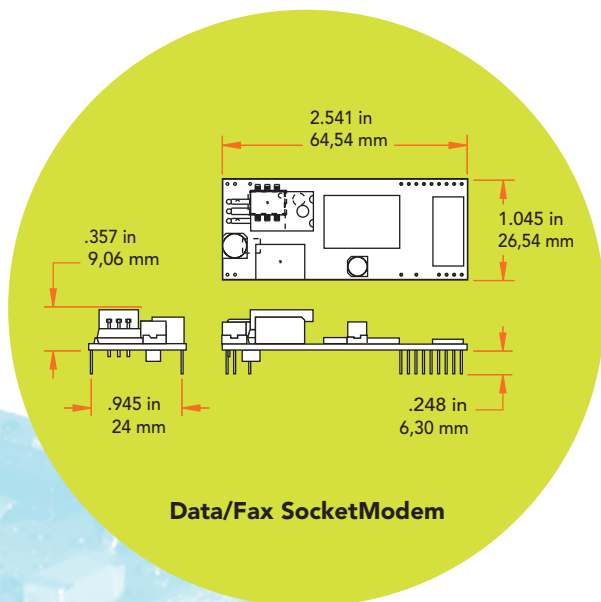
## **Fastest Path to Market**

Time-to-market is accelerated with a SocketModem embedded modem because it is a complete, ready-to-integrate communication module. You don't have to worry about hiring the expertise to write Internet application and modem controller code. And, it will relieve you of the burden, delay, and expense of acquiring all the global telecom, network and RF approvals associated with communication technology. This alone will save you valuable resources and dollars to allow you to focus on your product's core features.

## **Global Compliance**

The SocketModem dial-up and Internet modems have successfully completed international compliance testing (homologation) for global approval. This means you can specify one module for your design without having to integrate specific country approved modules for each system used across the world. And, since the embedded modems

# m?



are host independent devices, the associated telecom approvals are portable across any solution for which they are integrated. In fact, Multi-Tech virtually relieves you of the expense and burden of the telecom certification process.

### Operating System Independence Increases Reliability

The SocketModem embedded modem is operating system independent and therefore reduces the complexity of integration when compared to a software-based solution. As a result, you free up engineering resources and greatly increase the reliability of the total solution.

### Controller-based Reduces Micro-processor Costs

The SocketModem embedded modem is controller-based meaning all of the modem and networking code is run on the module itself. This relieves the host system of the communications processing burden and provides you with an opportunity to invest in a lower power/lower cost system architecture.

### Flash Upgradeable and Customizable

Several models of the SocketModem embedded modem feature flash memory so the firmware can be updated with the latest enhancements Multi-Tech has to offer. In addition, they can be customized for specific OEM applications.

### Developer's Kit

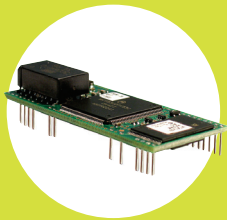
The SocketModem Developer's Kit allows you to plug in the module and use it for testing, programming and evaluation. The kit includes one development board with RS-232 cable, power supply, and RJ-11 cable or antenna. Developer boards for parallel models are also available.

# Universal Socket Family at a Glance



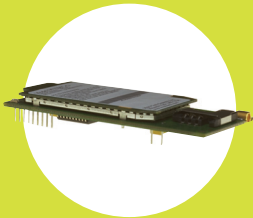
## **SOCKETMODEM® AND SOCKETMODEM® IP**

The SocketModem embedded modem includes the controller, data pump and data access arrangement (DAA) in one module. With connect rates from 300 bps to 56K, it is ideal for applications that periodically need to send or receive data over a standard telephone line. The SocketModem IP embedded modem integrates a complete data/fax modem solution and TCP/IP protocol stack into one module.



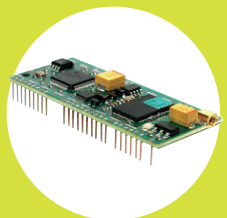
## **SOCKETMODEM® ISDN**

The SocketModem ISDN embedded modem integrates 2B+D BRI ISDN functionality and an S/T interface into a single module. With speeds up to 128K bps, it is ideal for applications that periodically need to send or receive data over an ISDN network.



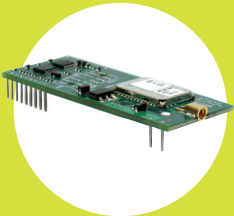
## **SOCKETMODEM® EDGE, SOCKETMODEM® GPRS AND SOCKETMODEM® CDMA**

The SocketModem EDGE, SocketModem GPRS, and SocketModem CDMA wireless modems offer standards-based EDGE Class 10, multi-band GSM/GPRS Class 10 and CDMA 2000 1xRTT performance respectively. These quick-to-market modules allow developers to add wireless communication to products with a minimum of development time and expense.



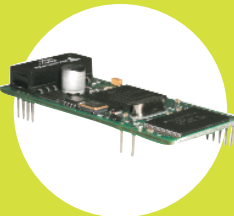
## **SOCKETWIRELESS® WI-FI®**

The SocketWireless® Wi-Fi® device server connects serial devices to an IP network via 802.11b wireless networking. It is ideal for remote monitoring, control and configuration of any system.



## **SOCKETWIRELESS® BLUETOOTH®**

The SocketWireless Bluetooth serial adapter utilizes Bluetooth technology to provide a secure, standards-based wireless connection between a host and peripheral device. Providing wireless data transfer up to 100 meters, it completely eliminates the need for serial cable connections.



## **SOCKETETHERNET IP®**

The SocketEthernet IP device server connects serial devices to an IP network. It is ideal for remote monitoring, control, maintenance and configuration of any system.

## Other Embedded Solutions



### RJMODEM™

The RJModem embedded modem is the most compact, integrated modem solution that includes the controller, data pump and DAA in a unique RJ11 form factor. With minimal engineering effort, it instantly adds global communication capabilities to any product design.



### MODEMMODULE™ GPRS AND MODEMMODULE™ CDMA

The ModemModule GPRS and ModemModule CDMA wireless modems include the controller, RF transceiver, SIM socket (GSM), and antenna connector packaged in a compact industrial metal chassis. Built on industry-standard open interfaces, they are ideal for applications that periodically need to send and receive data over a wireless network.

## who's Multi-Tech?

**Multi-Tech Systems is an ISO 9001:2000 certified global manufacturer of award-winning telephony, Internet, remote access, and device networking products. Since 1970, Multi-Tech Systems has grown from modest origins to a company with a worldwide reputation for reliable products of innovative design. This reputation is just as strong today. New technologies, same focus: connecting voice and data over IP networks.**

## Universal Socket Family

### SOCKETMODEM

<b>MT9234SMI</b>	56K/V.92 or below data rates, V.34 fax, parallel or serial, industrial temperature or medical device models available
<b>MT5656SMI</b>	56K/V.92 or below data rates, speakerphone interface
<b>MT5600SMI</b>	56K/V.92 or below data rates, parallel or serial
<b>MT2492SMI</b>	56K or below, serial data only, regional
<b>MT2456SMI</b>	2400 bps data rate, serial

### SOCKETMODEM IP

<b>MT2456SMI-IP</b>	56K/V.92 or below data rates and TCP/IP
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### SOCKETMODEM ISDN

<b>MT128SMI</b>	64/128K ISDN 2B+D BRI Modem, S/T Interface
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### SOCKETMODEM EDGE, SOCKETMODEM GPRS AND SOCKETMODEM CDMA

<b>MTSMC-E</b>	Quad-band EDGE Class 10
<b>MTSMC-G</b>	GSM/GPRS Class 10, 900/1800 or 850/1900 MHz
<b>MTSMC-C</b>	CDMA2000 1XRTT, 800/1900 MHz

### SOCKETWIRELESS WI-FI

<b>MT800SWM</b>	Embedded Serial-to-Wi-Fi® Device Server
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### SOCKETWIRELESS BLUETOOTH

<b>MTS2BTSMI</b>	Serial-to-Bluetooth Module
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### SOCKETETHERNET IP

<b>MTXCSEM</b>	10/100 Serial-to-Ethernet and TCP/IP, medical device model available
<b>MT100SEM</b>	10/100 Serial-to-Ethernet and TCP/IP

## Other Embedded Solutions

### RJMODEM

<b>MT5656RJ</b>	56K/V.92 or below data rates, 5V or 3.3V
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### MODEMMODULE GPRS AND MODEMMODULE CDMA

<b>MTMMC-G</b>	GSM/GPRS Class 10, 900/1800 or 850/1900 MHz
<b>MTMMC-C</b>	CDMA2000 1XRTT, 800/1900 MHz

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