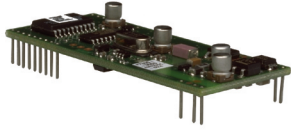


SocketModem®

Embedded Dial-up Modem



The Multi-Tech SocketModem® embedded modem creates communication-ready devices by integrating data/fax modem functionality into a single, universal socket design. The SocketModem embedded modem utilizes a space-efficient (1" x 2.5"), design that allows OEMs to integrate a wide range of modem functions and speeds into any product platform. The complete, ready-to-integrate modem dramatically reduces development time and costs for system designers. The SocketModem embedded modem complies with telecom requirements globally and can be shipped worldwide.

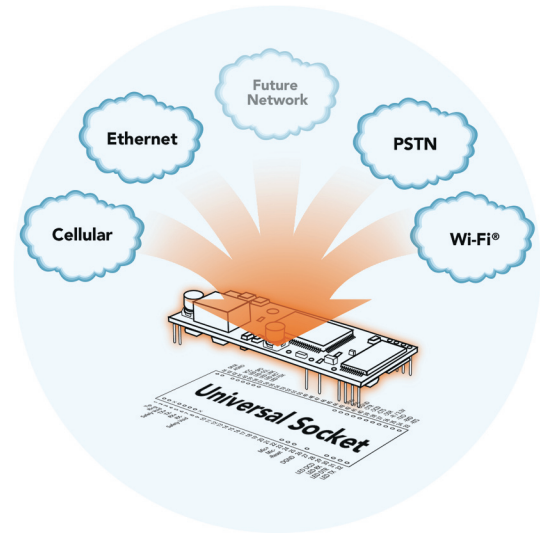
Features

- Complete data/fax modem solution including the controller, data pump, and DAA
- Space efficient universal socket connectivity
- Telecom approved in more than 50 countries
- V.92/56K, V.34/33.6K, V.32bis/14.4K and V.22bis/2400 bps data rate options
- High speed models backward compatible with lower speeds
- V.34/33.6K or V.17/14.4K fax
- V.44 and V.42bis data compression
- V.42 error correction
- Intelligent DAA technology detects line status
- U.S. Caller ID reporting
- Low power/sleep mode
- Flash memory for easy updates
- FastPOS (V.29) and V.22bis Fast Connect
- V.80 Synchronous Access
- Leased (dry) line operation
- 10 or 11-bit modes
- 3.3V or 5V power input options
- Serial or parallel interfaces
- Two-year warranty

Some features only available on select models.

Universal Socket Benefits

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



Highlights

Applications. With connect rates from 300 to 56,000 bits per second (bps), the SocketModem embedded modem is targeted at applications that periodically need to send or receive data over a standard telephone line. It is ideal for:

- Appliances
- ATM terminals
- Credit card and check verification systems
- Data collection
- Gas pumps
- Industrial and medical remote monitoring systems
- Point-of-sale terminals
- Remote diagnostics
- Remote metering
- Security systems
- Television set-top boxes
- Ticketing machines
- Vending/gaming machines

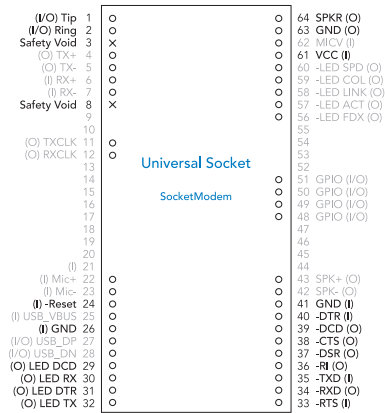
Integration Reduces Space, Power and Cost. The SocketModem embedded modem integrates the controller, data pump and data access arrangement (DAA) in one communications device. This integration requires low power, low real estate, and provides an overall reduction in costs.

Reduces Development Time. The SocketModem embedded modem can make your existing and next generation device, machine, or system, communication-ready without requiring significant hardware changes to its design. The SocketModem embedded modem actually provides faster time-to-market because it relieves the burden and expense of writing modem controller code. The complete, ready-to-integrate modem allows you to enhance your product while you focus on developing its core features.

Real-time Data Transfer. By adding the SocketModem embedded modem to any system application, you will achieve real-time data transfers at the fastest analog modem speeds. For data communications, the industry-standard V.92 modem downloads at 56K speeds from a digital V.92 server and uploads at 48K bps. If needed, the SocketModem embedded modem will negotiate slower speed connections automatically. For fax applications, it supports industry-standard V.34 (33.6K bps), V.17 (14.4K bps) or Group 3 (9600 bps) faxing using Class 1/1.0 or Class 2/2.0/2.1 commands. If your application does not require fax capabilities, a lower-cost module is available.

Industry-standard Modem Commands. The SocketModem embedded modem provides industry-standard AT-style commands for ease of integration into your existing software applications. In addition, it also provides industry-standard error correction and data compression to shorten transfer time and ensure data is sent error-free.

SocketModem Pin-Out. The SocketModem embedded modem interfaces easily with existing products through a standard serial or parallel communication channel. The complete on-board DAA interfaces with an RJ-11 jack for direct connection to the public switched telephone network. The SocketModem embedded modem provides audio circuit outputs for audio call-progress monitoring, and LED driver outputs for visual monitoring of Carrier Detect, Transmit Data, Receive Data and DTR signals. The SocketModem embedded modem is a Data Terminal Equipment (DTE) device with a serial or parallel interface. The serial DTE channel is capable of transfer speeds to 230.4K bps and can be interfaced directly to a UART or microcontroller.



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

Advanced Set-up and Control Features. The SocketModem embedded modem has several advanced features built into the design. It supports remote configuration, which means you can have central site setup and control of the remote modem. In addition, the communications devices provide three-number storage for automatic dialing capabilities and non-volatile memory (NoVRAM) to store user profiles.

Global Compliance. The SocketModem embedded modem has successfully completed international compliance testing (homologation) for global approval. This means one communications device can be specified per design without having to integrate specific country approved devices for each system used across the world.

Firmware Upgrades. The SocketModem embedded modem also features flash memory to allow for firmware updates. These upgrades allow the user to stay current with the latest enhancements that Multi-Tech has to offer.

Developer's Kit. The Developer's Kit provides the ability to plug in the modem and use it for testing, programming and evaluation. The kit includes one development board with RS-232 DB-25 connector, universal power supply, RJ-11 jack, RS-232 cable and Developer Guide CD.

Telecom Certifications:

Argentina	France	Latvia	Russia
Australia	Germany	Liechtenstein	Singapore
Austria	Greece	Lithuania	Slovak Republic
Belgium	Hong Kong	Luxembourg	Slovenia
Brazil	Hungary	Malaysia	South Africa
Canada	Iceland	Malta	Spain
Chile	India	Mexico	Sweden
China	Indonesia	Netherlands	Switzerland
Cyprus	Ireland	New Zealand	Taiwan
Czech Republic	Israel	Norway	Thailand
Denmark	Italy	Philippines	Turkey
Estonia	Japan	Poland	United Kingdom
Finland	Korea	Portugal	United States

The above list is our target set of countries in which the global SocketModem embedded modems are approved. Many of the approvals are completed at the time the product is released to market; whereas others may take additional months to complete. Furthermore, some models may have additional approvals.

SocketModem Models	MT2492SMI->xx	MT2456SMI->xx	MT5600SMI->xx	MT9234SMI->xx	MT5656SMI->xx
Telecom Approvals					
Global		X	X	X	X
Interface					
Serial	X	X	X	X	X
Parallel			X	X	X
Power					
3.3 Volt	X	X	X	X	X
5 Volt	X	X	X	X	X
Maximum Data Rate					
V.92/56K	X		X	X	X
V.34/33.6K	X		X		X
V.32bis/14.4K			X		X
V.22bis/2400 baud	X	X			
Fax Capability					
V.34 Fax				X	
V.17 Fax			X	X	X
V.29/V.27/V.21 Fax			X	X	X
Fax Class 1			X	X	X
Fax Class 1.0			X	X	X
Fax Class 2				X	X
Fax Class 2.0/2.1				X	
Fax Compression (MH, MR, MMR)				X	
Error Correction Mode (ECM)				X	
Memory Type					
Flash + RAM				X	
Masked ROM	X	X	X		X
Features					
11-bit Mode			X	X	X
U.S. Caller ID	X	X		X	X
Leased Line				X	
V.22bis Fast Connect	X	X	X	X	X
FastPOS (V.29)			X		X
Callback Security				X	
Industrial Temp Range				X	
Medical Isolation				X	
LED Pin Outputs		X	X	X	X
Extension Pickup Detection	X	X	X		X
Remote Hang-up Detection	X	X	X		X
Line-in-use Detection	X	X	X		X
Digital PBX Detection & Protection	X	X	X		X
Voice Record & Playback (TAM)			X	X	X
Speakerphone I/O					X

Some features do not apply to all build options within a given family. See ordering information on back page for specific build options and features.