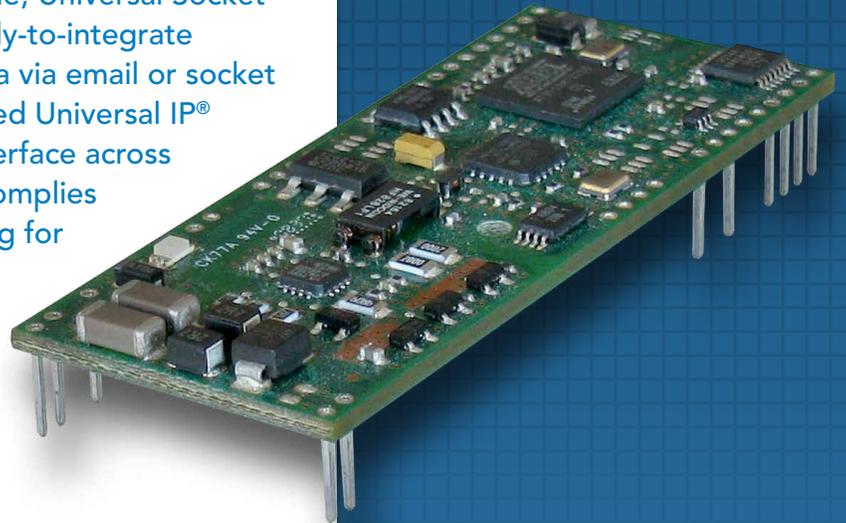


# SocketModem® IP



## Intelligent Modem + Internet Applications

The SocketModem® IP intelligent modem creates Internet-ready devices by integrating modem functionality and a complete TCP/IP protocol stack into a single, Universal Socket design. The space efficient (1" x 2.5"), ready-to-integrate embedded modem sends and receives data via email or socket interfaces. The intelligence of the embedded Universal IP® stack provides a common AT command interface across multiple Universal Socket devices. It also complies with telecom requirements globally allowing for worldwide shipments.

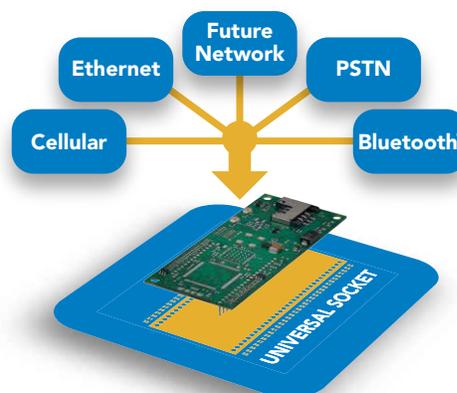


### Features

- AT command interface for IP configuration
- Complete modem solution including the controller, data pump and DAA
- Universal Socket connectivity
- Intelligent Universal IP stack for enhanced M2M functionality
- DNS, FTP client, POP3, SMTP, ICMP, IP, TCP/UDP socket communications and PPP protocol support
- PAP and CHAP authentication
- Serial interface supports DTE speeds to 921Kbps
- TIA-602 AT command compatible in modem mode
- Global approvals with a single communications device design
- Flash memory to update firmware with the latest enhancements
- Two-year warranty

### Universal Socket Benefits

- Interchangeable communications devices
- Intelligent Universal IP stack
- Global approvals
- Easy migration to future networks



## Specifications

### Modem

ITU-T V.92/V.90/56K, V.34/33.6K, V.32bis/14.4K, V.22, V.23, & V.21; Bell 212A & Bell 103

V.42 LAPM, MNP 2-4 Error Correction

V.44, V.42bis, & MNP Class 5 data compression

### Power Requirements

3.3V or 5V DC

### Power Usage

Typical: 101mA (.33w @ 3.3VDC)

Maximum: 112mA (.37w @ 3.3VDC)

Typical: 105mA (.53w @ 5VDC)

Maximum: 116mA (.58w @ 5VDC)

### Physical Description

2.541" L x 1.045" W x 0.680" H; 0.6 oz.

(6.45 cm x 2.65 cm x 1.7 cm; 0.017 kg.)

### Operating Environment

Temperature Range: -40° to +85° C

### Certification & Approvals

EMC: FCC CFR47 Part 15 (Class B); ICES-003 Canada (Class B); EN 55022 (Class B), EN 55024

Safety: cUL 60950, UL 60950, EN 60950, AS/NZ 60950:2000, CCC

RoHS Compliant

## Highlights

### Applications.

With connect rates from 300 to 56,000 bps, the SocketModem IP modem 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
- Ticketing machines
- Security systems
- Television set-top boxes
- Vending/gaming machines

### Internet-enable Any Device.

The SocketModem IP modem Internet-enables any device at a minimal cost. Using the embedded Universal IP stack, it sends and receives data over the Internet without connecting to a PC or a gateway server.

## 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.

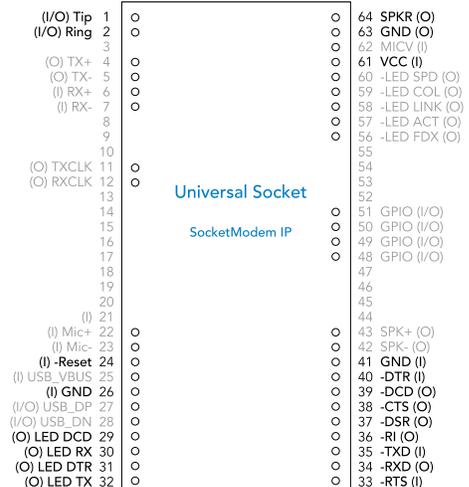
## Universal IP for Enhanced M2M Connectivity

Multi-Tech's Universal IP® stack consists of a common set of TCP/IP and other common modem functions that are implemented using a standard set of AT commands. The result for customers is reduced development time when using more than one cellular technology or when a cellular module/radio goes end-of-life. Multi-Tech products with Universal IP are designed for applications needing enhanced M2M communications connectivity, including:

- Auto Connect/Persistent Connectivity – Allows a modem to connect and stay connected without being managed by an intelligent device. It can also work with remote wake up to start a connection, as well as ping and TCP keep alive to keep the connection active.
- Device Monitoring – Acts as a watchdog to monitor and manage the connection. If the device becomes unresponsive, the device monitor can perform a reset to get it back to a known state.
- Event Monitoring and Reporting via GPIO – Uses general purpose input/outputs to monitor the state of a connected device. Universal IP can be configured to send status updates when the state of the connected device has passed pre-configured thresholds.

## SocketModem IP Pin-out.

SocketModem IP interfaces easily with existing devices through a standard serial interface. A simple programming interface between the device application and SocketModem IP activates the powerful Internet connectivity functions.



## Global Compliance.

The SocketModem IP 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.

## Developer's Kit.

The Developer's Kit allows you to plug in the communications device and use it for testing, programming and evaluation. See [www.multitech.com/pdfs/devkit.go](http://www.multitech.com/pdfs/devkit.go) for more details.

## Ordering Information

Product	Description	Region
MT5692SMI-IP-92	V.92 Serial Data Only + IP	Global
MT5692SMI-IP-L-92	V.92 Serial Data Only + IP	Global
Ordering Codes		
-IP	Embedded Universal IP Stack	
-L	3.3V Power Input (Default is 5V)	
-92	V.92/56K Data Rate	
.Rx	Version control	

## Services & Warranty

Multi-Tech's comprehensive Support Services programs offer a full array of options to suit your specific needs. These services are aimed at protecting your investment, extending the life of your solution or product, and reducing total cost of ownership. Our seasoned technical experts, with an average tenure of more than 10 years, can walk you through smooth installations, troubleshoot issues and help you with configurations. Products include a 2-year warranty.

## Installation Support

Multi-Tech's Installation Support Service delivers priority service with the ability to work one-on-one with an experienced Multi-Tech technical support engineer, to guide you through the installation process for our products.

## Technical Support Services

At Multi-Tech, we're committed to providing you personalized attention and quality service while providing you a quick response to your product support needs. We have several options of support for you to choose from.

For additional information on Support Services as well as other service offerings, please contact your Multi-Tech representative or visit [www.multitech.com/support.go](http://www.multitech.com/support.go).

## World Headquarters

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