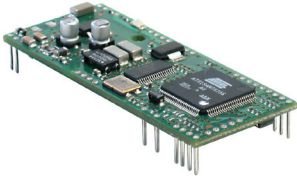


# SocketModem® IP

## Embedded Modem + Internet Applications



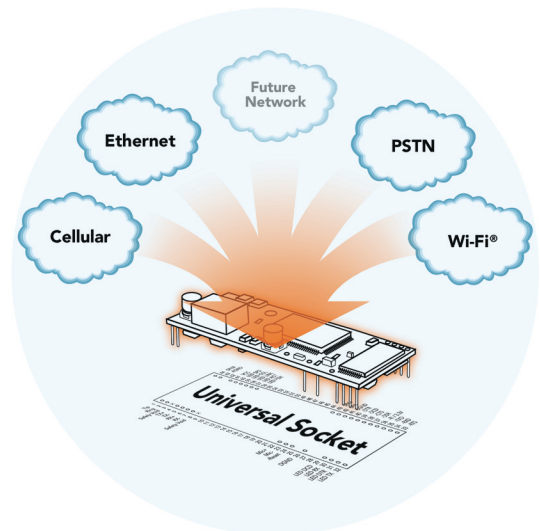
The SocketModem® IP embedded modem creates Internet-ready devices by integrating modem functionality and a complete TCP/IP protocol stack into a single, Universal Socket design. The space efficient (1" x 2.5"), ready-to-integrate embedded modem sends and receives data via e-mail or socket interfaces. The intelligence of the embedded Universal IP™ stack provides a common AT command interface across multiple Universal Socket devices. The SocketModem IP embedded modem brings Internet connectivity to any device without adding development time and costs. 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
- DNS, FTP client, POP3, SMTP, Telnet server, ICMP, IP, TCP/UDP socket communications and PPP protocol support
- PAP and CHAP authentication
- Serial interface supports DTE speeds to 230.4K bps
- 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



# Highlights

**Applications.** With connect rates from 300 to 56,000 bps, the SocketModem IP embedded modem is ideal for:

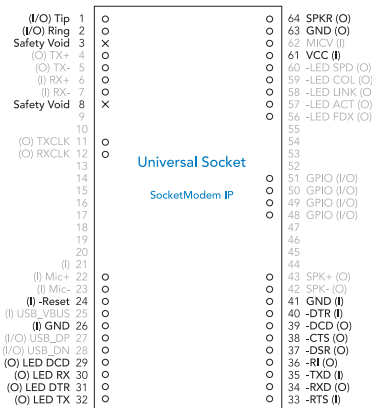
- Appliances
- ATM terminals
- Credit card and check verification systems
- Data collection
- Gas pumps
- Industrial and medical remote monitoring systems
- Point-of-sale terminals
- Remote diagnostics
- Remote metering
- Ticketing machines
- Security systems
- Television set-top boxes
- Vending/gaming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

**Internet-enable Any Device.** The SocketModem IP embedded 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.** 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.

**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 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.

**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, wall power adapter, RJ-11 jack, RS-232 cable and Developer Guide CD.

## Specifications

### Power Requirements

3.3V or 5V DC

### Power Usage

Typical: 140mA

Maximum: 150mA

### 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: 0° to +70° C

### 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

## Ordering Information

Product	Description	Region
MT5656SMI-IP-92	V.92 Serial Data Only + IP	Global
MT5656SMI-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

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

Features and specifications are subject to change without notice.

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