

# SocketModem® IP

## Embedded Modem + Internet Applications



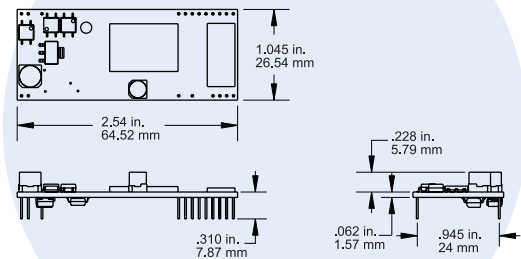
### Benefits

- Internet enable any device
- Built-in FTP, telnet, POP3 and SMTP clients
- Universal socket connectivity
- Global compliance

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, HTTP or socket interfaces. 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

- Command Line API for Internet configuration
- Complete data/fax modem solution including the controller, data pump, and DAA
- Internet processor runs DNS, Dial-in PPP, FTP, HTTP, ICMP, IP, IPCP, LCP, POP3, PPP, SMTP, SNMP, SNTP, TCP, Telnet and TFTP protocols
- Binary Base 64 encoding and MIME e-mail formats
- PAP, CHAP or Script authentication
- Web Server supports multiple HTML web pages
- HTTP version 1.0 and 1.1 support
- 2400 baud to 56K bps SocketModem IP build options
- Serial interface supports DTE speeds to 230.4K bps
- TIA-602 AT command compatible in modem mode
- Global approvals with a single module design
- Space efficient universal socket connectivity
- Flash memory to update firmware with the latest enhancements
- Two-year warranty



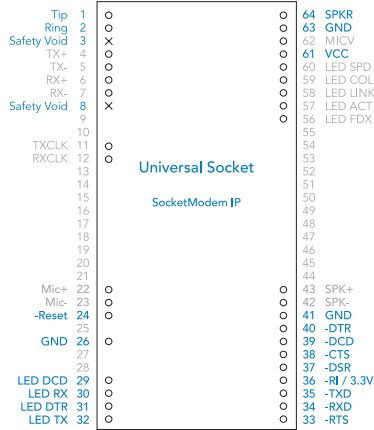
## Highlights

**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 Internet protocols, it sends and receives data over the Internet without connecting to a PC or a gateway server. It can also serve a single web page in response to a web browser request.

**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.



Note: Populated pins are highlighted.

### Universal Socket Connectivity.

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

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

**Developer's Kit.** The 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 DB-25 connector, wall power adapter, RJ-11 jack, RS-232 cable and Developer Guide CD.

## Telecom Certifications\*

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

\* Some country approvals pending.

## Specifications

### Power Requirements

3.3V DC, +/- 10%

### Power Usage

Typical: 165mA (V.22bis model: 135mA)

Maximum: 225mA (V.22bis model: 195mA)

### 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

### Network Protocol Support

Dial-in PPP, DNS, FTP, HTTP, ICMP, IP, IPCP, LCP, POP3, PPP, SMTP, SNMP, SNTCP, TCP, Telnet, TFTP, UDP Socket

### Authentication Protocols

CHAP, Dial-up Script, PAP

### Approvals

EMC: FCC CFR47 Part 15 (Class B); ICES-003 Canada (Class B); EN 55022 (Class B), EN 55024  
Safety: UL 60950, EN 60950, AS/NZ 3260

## Ordering Information

Product	Description	Region
MT2456SMI-IPL22	V.22bis Serial Data Only + IP	Global
MT2456SMI-IPL32	V.32bis Serial Data Only + IP	Global
MT2456SMI-IPL34	V.34 Serial Data Only + IP	Global
MT2456SMI-IPL92	V.92 Serial Data Only + IP	Global

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

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