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# SocketEthernet IP®

## Intelligent Serial-to-Ethernet Device Server



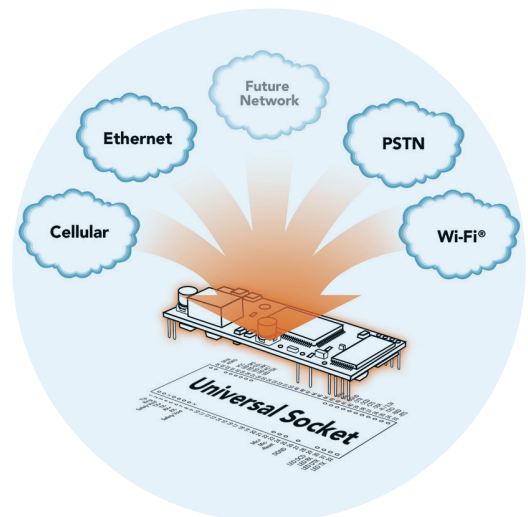
The SocketEthernet IP® intelligent device server connects serial devices to an IP network via a 10/100BaseT Ethernet interface. It enables you to build IP networking into virtually any device allowing for remote monitoring, control and configuration. The space efficient communications device (1" x 2.5") integrates Multi-Tech's intelligent Universal IP® stack, and can make your existing and next generation device, machine or system, IP-ready while you focus on developing its core features.

### Features

- Complete serial-to-Ethernet connectivity solution including network processor, media access controller and physical interface
- Serial interface supports DTE speeds to 230K bps
- Universal Socket connectivity
- Intelligent Universal IP stack for enhanced M2M functionality
- LED driver outputs for visual monitoring of speed, link, activity, collision and duplex mode
- 10/100BaseT auto-sensing Ethernet or configurable for 10MB, 100MB, half-duplex or full-duplex
- Models with medical/high voltage isolation (EN60601)
- AT command compatible
- Flash memory to update firmware with the latest enhancements
- Developer's kit available for testing, programming and evaluation
- Two year warranty

### Universal Socket Benefits

- Interchangeable communications devices
- Intelligent Universal IP stack
- Quick-to-market
- Easy migration to future networks



## Highlights

**Applications.** The SocketEthernet IP device server will IP-enable any serial device to provide remote monitoring, control and configuration of any system. It is ideal for:

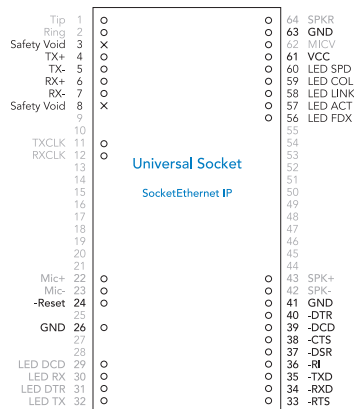
- Appliances
- ATM terminals
- Credit card and check verification systems
- Data collection
- Gas pumps
- Industrial and medical remote monitoring systems
- Point-of-sale terminals
- Remote diagnostics
- Remote metering
- Security systems
- Television set-top boxes
- Ticketing machines
- Vending/gaming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

**Serial-to-Ethernet Technology.** The SocketEthernet IP device server provides the powerful ability to IP-enable serial devices allowing more options for data acquisition, device management, and industrial control than would otherwise be available. The communications device integrates a processor, operating system, Universal IP stack and a network connection to provide a complete serial-to-Ethernet connectivity solution.

**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.

**SocketEthernet IP Pin-Out.** The SocketEthernet IP device server interfaces easily with existing products through a standard serial communication channel. The serial DTE channel is capable of transfer speeds to 230.4K bps and can be interfaced directly to a UART or microcontroller. The SocketEthernet IP device server also provides LED driver outputs for visual monitoring of speed, link, activity, collision and duplex mode.



**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, universal power supply, RJ-45 jack and RS-232 cable.

## Specifications

### Interfaces

10/100BaseT Ethernet, Asynchronous Serial

### Power Requirements

5VDC or 3.3VDC

### Power Usage

Typical: 137mA (.41w @ 3.3VDC)  
 Maximum: 168mA (.50w @ 3.3VDC)  
 Typical: 187mA (.94w @ 5VDC)  
 Maximum: 194mA (.97w @ 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

### Approvals

EMC: FCC Part 15 Class B, Canada Class B, EN 55022 Class B, EN 55024  
 Safety: UL 60950, cUL 60950, EN 60950, CSA 950, AS/NZS 6950:2000  
 RoHS 2002/95/EC Compliant

## Ordering Information

Product	Description	Region
MT100SEM-IP	Intelligent Device Server	Global
MT100SEM-L-IP	Intelligent Device Server	Global
MT100SEM-L-HV-IP	Intelligent Device Server	Global

### Ordering Codes

-IP	Embedded Universal IP Stack
-L	3.3V Power Input (Default is 5V)
-HV	High Voltage Dielectric Isolation (EN60601)
.Rx	Version control

Produced in the US of US and non-US components.

Features and specifications are subject to change without notice.

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