SocketEthernetIP™

Embedded Serial-to-Ethernet Module + Internet Applications

Benefits

High performance Ethernet bridge

Flexible IP protocol stack

Integration

Space efficiency

The Multi-Tech SocketEthernetIP is a complete, ready-to-integrate serial-to-Ethernet module for connecting legacy devices to an IP network for remote monitoring, control and configuration. The space efficient module (1" x 2.5") provides a high performance Ethernet bridge as well as a complete TCP/IP protocol stack. SocketEthernetIP can make your existing and next generation device, machine or system, IP-ready while you focus on developing its core features.

A Complete, Ready-to-Integrate Serial-to-Ethernet Module for IP Connectivity

Features

- Serial interface supports DTE speeds to 230K bps
- High performance 10/100BaseT Ethernet bridge
- Space efficient (1" x 2.5")
- Typical power consumption is 260mA with a maximum of 300mA (3.3V model)
- High performance processor runs ARP, DHCP, ICMP, IP, PPP, TCP, Telnet, TFTP, UDP protocols
- LED driver outputs for visual monitoring speed, link, activity, collision and duplex mode
- Half duplex or full duplex support on the WAN interface
- 256 frame buffer
- Stores 10,000 MAC addresses
- Automatically learns MAC addresses
- Command line interface
- Central site setup and control of the remote modules
- Flash memory to update firmware with the latest enhancements
- Developer's kit available for testing, programming and evaluation

MultiTech® Systems

Highlights

Applications. The SocketEthernetIP Ethernet bridge will IP-enable any device to provide remote monitoring, control and configuration of any system. The solution is ideal for the following applications:

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

Serial-to-Ethernet Technology. SocketEthernetIP provides the powerful ability to IP-enable legacy serial devices allowing more options for data acquisition, device management, and industrial control than would otherwise be available. This can greatly reduce the cost of system downtime and human labor costs.

Internet-enable Any Device. SocketEthernetIP embeds Internet connectivity inside commercial, personal and industrial devices. Using the embedded Internet protocols and the connection to an IP network, it sends a receives data over the Internet.

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

Specifications

Power Requirements

5V DC or 3.3V DC

Power Usage

Typical: 270mA @ 5V or 260mA @ 3.3V
Maximum: 310mA @ 5V or 300mA @ 3.3V

Physical Description

1.045" w x 2.541" h x 0.680" d; 0.6 oz.
(2.65cm x 6.45cm x 1.7cm; 0.017 kg.)

Operating Environment

Temperature Range: 0-70°C

Approvals

EMC: FCC Part 15 (Class B), Canada (Class B), EN55022 (Class B), EN55024
Safety: UL 60950, EN 60950, CSA 950, AS 3260

Ordering Information

Model	Description	Region
MTXCSEM	Serial-to-Ethernet + IP 5V	Global
MTXCSEM-L	Serial-to-Ethernet + IP 3.3V	Global

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

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SocketEthernetIP Pin-Out. The SocketEthernetIP 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. SocketEthernetIP also provides LED driver outputs for visual monitoring of speed, link, activity, collision and duplex mode.

Management and Configuration. The SocketEthernetIP has several means of management and configuration built into the design. It supports remote configuration, which means you can have central site setup and control of the remote modules via the command line interface or telnet.

Firmware Upgrades. The SocketEthernetIP also features flash memory so you can update firmware with the latest enhancements Multi-Tech has to offer.

Developer's Kit. The SocketEthernetIP Developer's Kit allows you to plug in the SocketEthernetIP and use it externally connected to your PC 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.

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