

CSE-M53

(Embedded Serial to Ethernet Converter)



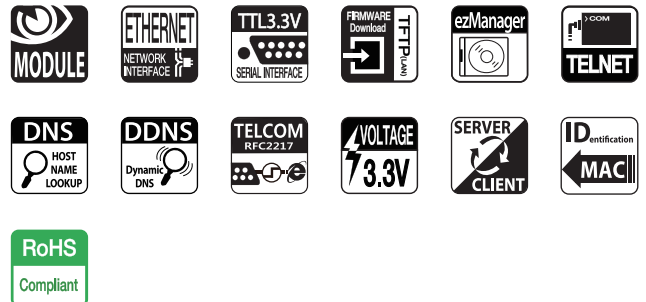
Overview

CSE-M53 is a module for manufacturers who want to quickly and easily embed Ethernet connectivity in their products. This very compact module helps your devices get network connectivity with just serial connection at a reasonable price. That is why we expect that CSE-M53 will be the best seller in the future. Applying this module, not only you can reduce cost and risk, but also you can shorten development time to add the network capability. Because CSE-M53 allows to extend the distance of your serial communication system, you are able to remotely control and monitor the serial devices over the Internet anywhere you are. Since CSE-M53's UART port can be designed to interface with RS232, RS422 or RS485 systems, it is available on various environments.

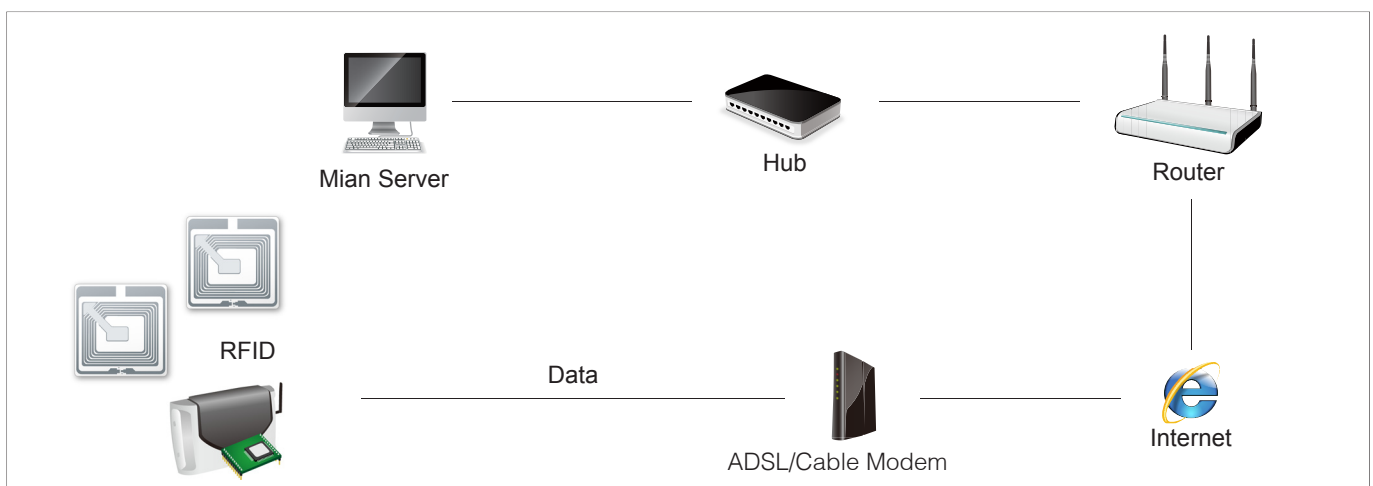
Highlights

- Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
- Very compact module type : 20mm x 24mm
- 10/100 Base-T Ethernet
- High speed UART x 1 (3.3V TTL, up to 921.6Kbps) available on S232/RS422/RS485 extension (In case of RS485 or Using Xon/ Xoff, the maximum data rate of the UART is limited to 230.4Kbps)
- Flexible configuration and network communication by 'AT Commands' (Patent)

Icons



Application



Specifications

Serial Physical Interface

Serial Interface	1xUART (3.3V TTL)
	RXD, TXD, RTS (TXDE for RS485), CTS
Connector	1 x 10 2mm pitch pin header x 2

Serial Port Properties

Baudrate	300bps ~ 921,600bps
Data Bits	5, 6, 7, 8 bits
Parity	None, Even, Odd, Mark, Space
Stop Bit	1, 2

Network Physical Interface

Network Interface	10Base-T/100Base-TX Ethernet
	Ethernet Speed Auto Sense
	1:1 or Cross-over Cable Auto Sense
	Simple External Circuit Required

Software Functions

Protocols	TCP, UDP, IP, ICMP, ARP, Ethernet, TELNET
	TFTP, DHCP, PPPoE, DNS, DDNS
	Telnet COM Port Control Option (RFC 2217)
Security	IP & MAC filtering - Restrict host or network
	Password for Configuring
Communication Mode	TCP Server (T2S)
	TCP Client (COD)
	TCP Server/Client with AT command (ATC) - Patent
	UDP Mode (U2S)
Additional Functions	Remote Debug Function
	TCP Server / Client mode
	Sending MAC address Option

Indicators (LEDs)

Status	The current status
DTR	TCP Connection Indicator

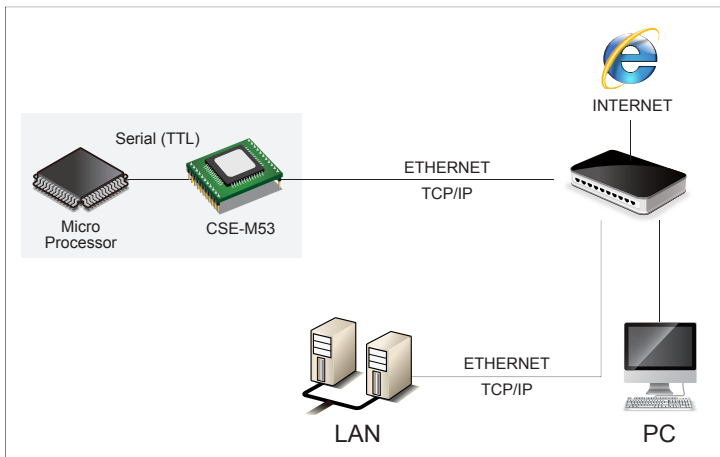
Management

ezManager	Configuration and Monitoring Tool through Network and Serial
Telnet	Telnet Login
AT Command	Configuring in ATC mode - Patent

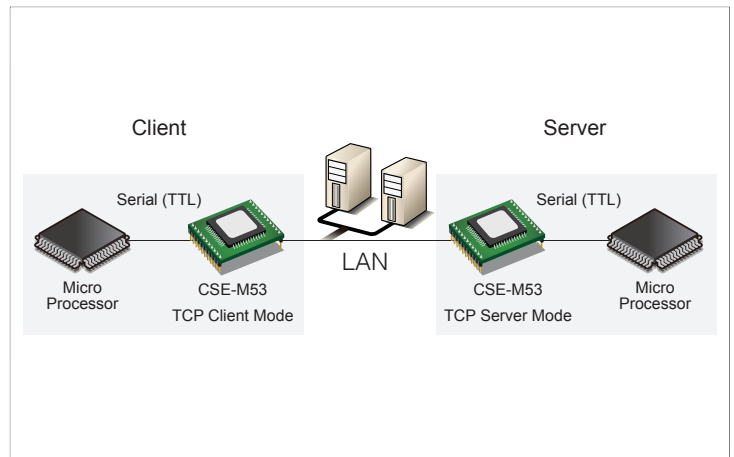
Supplementary Software

ezManager	Configuration Tool for Windows
ezVSP	Serial to Network Virtual Driver for Windows
ezTerm	Simple TCP/IP Communication Test Tool
Dimension	
Size	20.0mm x 24.0mm x 9.1mm
Operating Environment	
Input Voltage	DC 3.3V
Current Consumption	75mA typical
Operating Temperature	-20°C ~ +70°C
Storage Temperature	-40°C ~ +85°C

System Diagram



Serial Device Server



Serial Tunnelling