

Data Sheet

CSE-M53G | Serial Ethernet Module



Overview

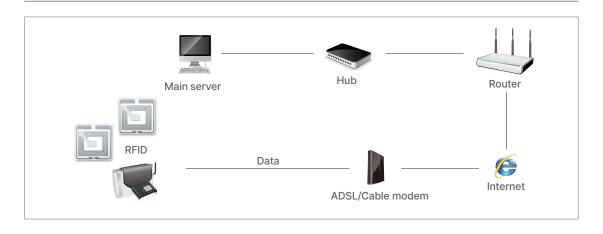
CSE-M53G is a super compact embedded Serial to Ethernet converting module which is pin compatible with both CSE-M53 and CSE-M53N.

This module is equipped with various communication functions such as IPv6, DNS, secure communication (TLS v1.2) and delimiter settings for packet fragmentation, and supports industrial temperature specifications of -40°C to +85°C.

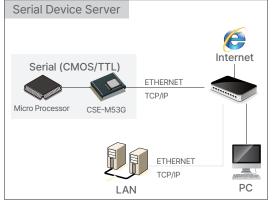
Features

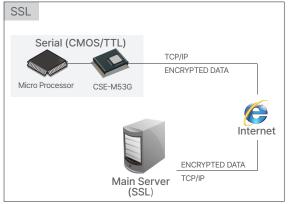
- 1 x UART(3.3V level)
- 10/100Mbps Ethernet
- Super compact module type (20mm x 24mm)
- High speed UART x 1 (up to 921.6Kbps, under certain conditions)
- Industrial temperature range (-40°C~+85°C)
- Support TLS v1.2
- Multiple Connection (F/W v2.3A or later)
- · Delimiter settings for packet fragmentation
- IPv4/IPv6 dual stack
- Flexible configuration and network communication by 'AT Commands' (patent)

Application



System Diagram





Specifications

Serial Physical Interface	
Serial interface	3.3V level with 5V tolerant input
	RXD, TXD, RTS(TXDE for RS485), CTS, GND
Connector	1 X 10 2mm pitch pin header X 2
Serial Port Property	
Baudrate	300bps ~ 921,600bps
Data Bits	8bits, 7bits with parity
Parity	None, Even, Odd, Mark, Space
Stop Bit	1, 2 (* a single idle bit is automatically added to every stop bit by the MCU function)
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	IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6
	TCP, UDP, IP, ICMP, ARP, TELNET
	DHCP, PPPoE, DNS, DDNS
Security	SSL (Secure Socket Layer)
	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	Separator settings for packet fragmentation
	TCP Server / Client Mode
	Sending MAC address Option
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	20mm X 24mm X 9.1mm
Operating Environments	
Input Voltage	DC 3.3V
Current Consumption	110mA(100M Ethernet), 150mA(10M Ethernet)
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-40°C ~ +85°C