

데이터시트

CSE-M53N | Serial Ethernet Module



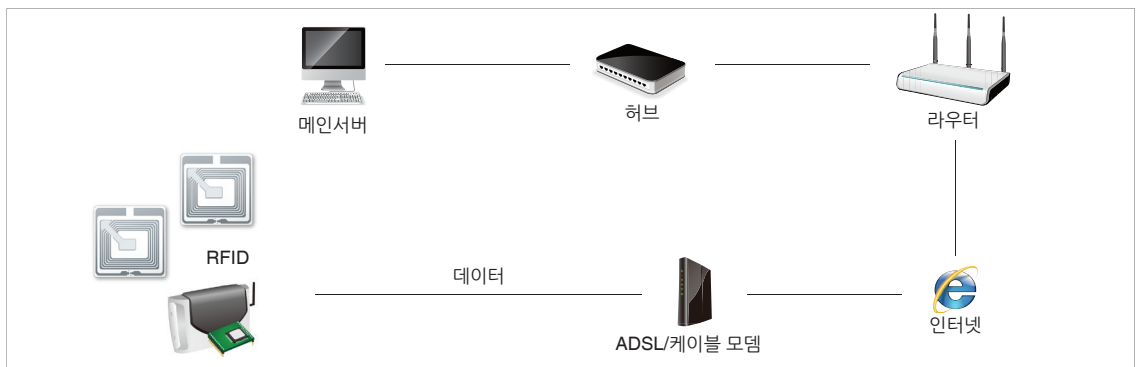
Overview

CSE-M53N은 IPv4는 물론이며, IPv6 기반의 네트워크에 적용 가능한 IPv6 주소체계를 지원하는 초소형 내장형 시리얼↔이더넷 통신 모듈입니다. CSE-M53N은 CSE-M53과 Pin to Pin 호환되며 -40°C~+85°C의 산업용 온도 사양을 지원합니다. 강력한 보안기능과 패킷 분할 구분문자 설정 기능을 내장하고 있을 뿐만 아니라 DNS, DDNS, Telnet COM Port Control Option 등 다양한 통신기능을 내장하여 다양한 통신환경에서 적용이 가능합니다.

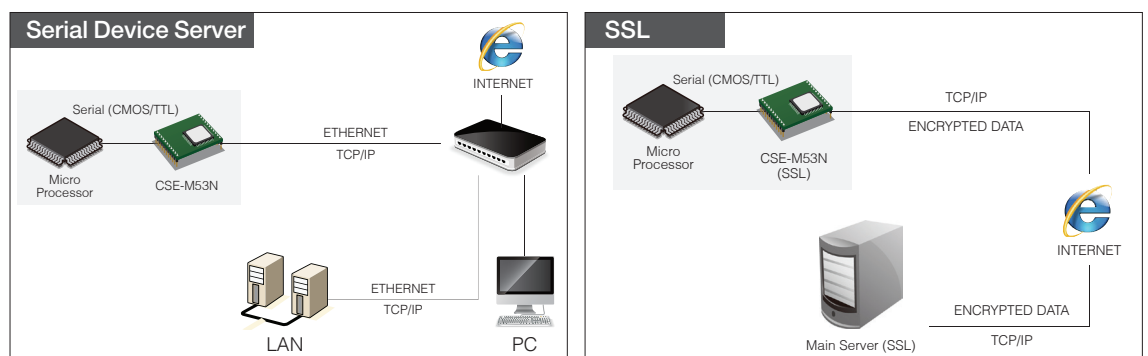
Features

- 1 x UART(3.3V level)
- 10/100Mbps Ethernet
- 초소형의 모듈형 제품(20mm x 24mm)
- 고속 UART 포트(최대 921.6Kbps - Xon/Xoff 사용 및 RS485 인 경우에는 230.4Kbps)
- 산업용 온도 사양(-40°C~+85°C)
- SSL 보안 통신 기능
- 패킷 분할 구분문자 설정 기능
- IPv6 지원(IPv4 / IPv6 듀얼스택)
- AT 명령어를 통한 유연한 환경 설정 및 통신 기능 제공(특허)

Applications



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 Properties	
Baudrate	300bps ~ 921,600bps
Data Bits	8bits, 7bits with parity
Parity	None, Even, Odd, Mark, Space
Stop Bit	1, 1.5, 2
Network Physical Interface	
Network Interface	10Base-T/100Base-TX Ethernet(RJ45)
	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
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	20mm x 24mm x 9.1mm
Operating Environment	
Input Voltage	DC 3.3V
Current Consumption	150mA (100M Ethernet), 200mA (10M Ethernet)
Operating Temperature	-40℃ ~ +85℃
Storage Temperature	-40℃ ~ +85℃