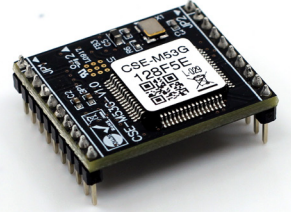


데이터시트

CSE-M53G | Serial Ethernet Module



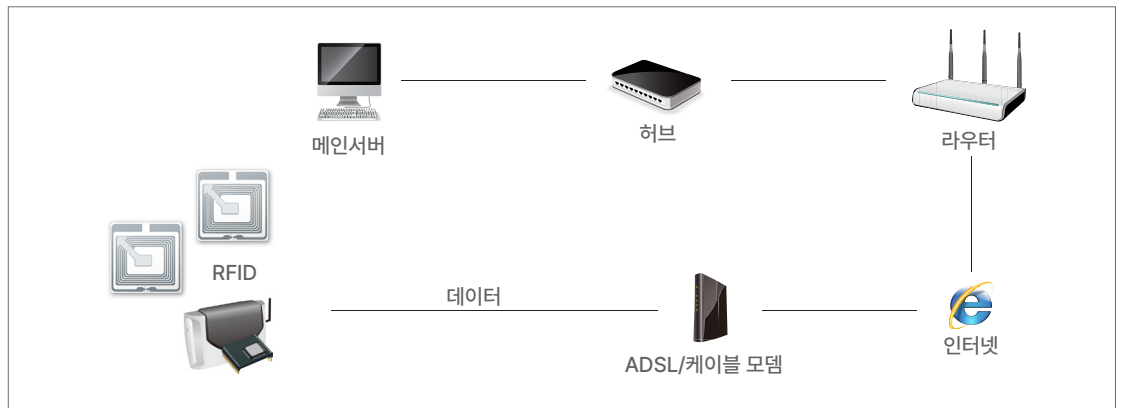
Overview

CSE-M53G는 IPv4 / IPv6 주소체계를 지원하는 초소형 시리얼<=>이더넷 통신 모듈입니다. 이 모듈은 CSE-M53 및 CSE-M53N과 Pin to Pin 호환되어 두 모듈을 대체하여 사용할 수 있습니다. 또한 DNS, 보안통신(TLS v1.2) 및 패킷 분할 구분문자 설정 기능 등 여러가지 통신기능을 갖추고 있으며 -40°C~+85°C의 산업용 온도 사양을 지원합니다.

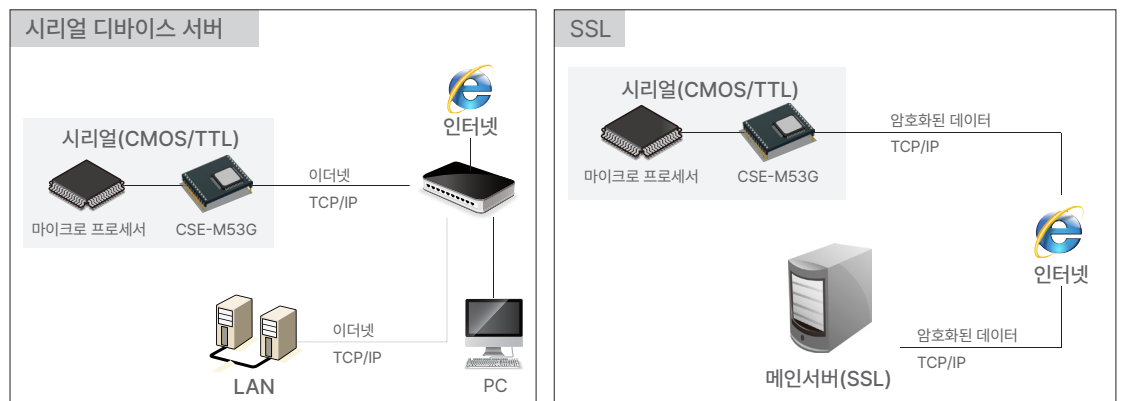
Features

- 1 x UART(3.3V level)
- 10/100Mbps Ethernet
- 초소형 모듈형(20mm x 24mm)
- 고속 UART 포트(특정 조건에서 최대 921.6Kbps)
- 산업용 온도 사양(-40°C~+85°C)
- 보안 통신 기능(TLS v1.2)
- 다중 접속 기능(F/W v2.3A 이상)
- 패킷 분할 구분문자 설정 기능
- IPv6 지원(IPv4 / IPv6 듀얼스택)
- AT 명령어를 통한 유연한 환경 설정 및 통신 기능 제공(특허)

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