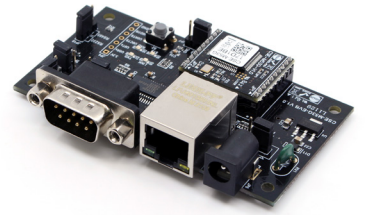## Data Sheet

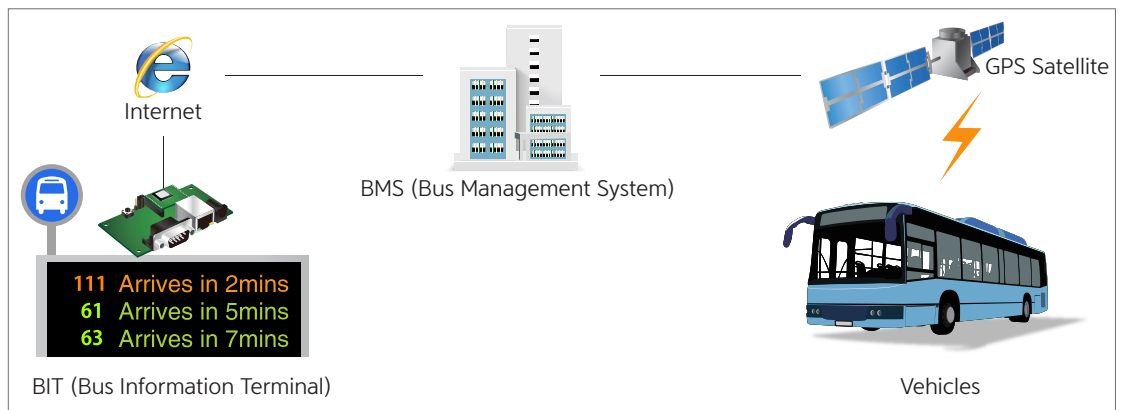# CSE-B63G | RS232/RS485 Ethernet Module

Overview

CSE−B63G is a board type serial ↔ Ethernet converting module which supports IPv4 / IPv6 dual stack.

This module not only equips various communication functions such as DNS, TLS(v1.2) and frame delimiter but also supports industrial temperature specification. (−40℃~+85℃)
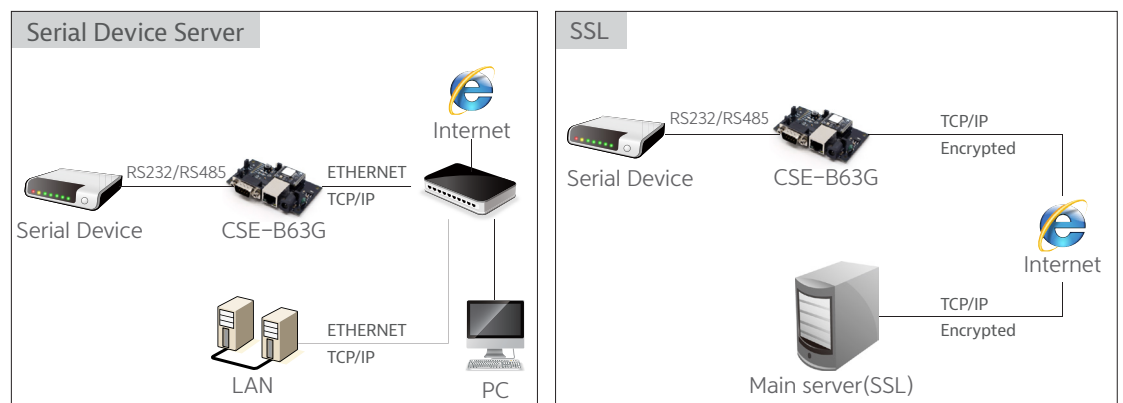
Features

· 1 x RS232/RS485

· 10/100Mbps Ethernet

· High speed UART x 1 (up to 921.6Kbps, under certain conditions)

· Industrial temperature range (−40℃~+85℃)

· Support TLS v1.2

· Delimiter settings for packet fragmentation

· IPv4/IPv6 dual stack

· Flexible configuration and network communication by 'AT Commands' (patent)

· Reverse voltage, Surge protection

Application

Internet

BMS (Bus Management System)

GPS Satellite

111 Arrives in 2mins
61 Arrives in 5mins
63 Arrives in 7mins

BIT (Bus Information Terminal)

Vehicles

System Diagram

Serial Device Server

Internet

RS232/RS485   ETHERNET
TCP/IP

Serial Device   CSE−B63G

ETHERNET
TCP/IP

LAN

PC

SSL

RS232/RS485   TCP/IP
Encrypted

Serial Device   CSE−B63G

Internet

TCP/IP
Encrypted

Main server(SSL)

Specifications

Serial Physical Interface	
Serial interface	RS232 - RXD, TXD, CTS, RTS, GND
	RS485 - TRX+, TRX-, GND (Built-in 3.9Kohm biasing resistance)

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 (RJ45)
	Ethernet Speed Auto Sense
	1:1 or Cross-over Cable Auto Sense

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)	
System	PWR, LINK, STS, TCP
Network	TXD, RXD
Serial	TXD, RXD, RTS, CTS

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	80mm X 45mm X 17mm

Operating Environments	
Input Voltage	DC 5V
Current Consumption	133mA(100M Ethernet), 173mA(10M Ethernet)
Operating Temperature	−40℃ ~ +85℃
Storage Temperature	−40℃ ~ +85℃