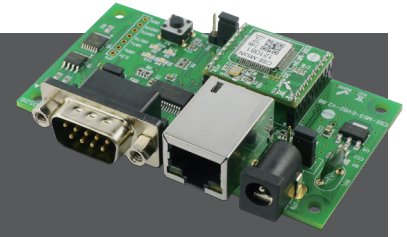


Data Sheet

# CSE-B63N2 | RS232/RS485 Ethernet Module



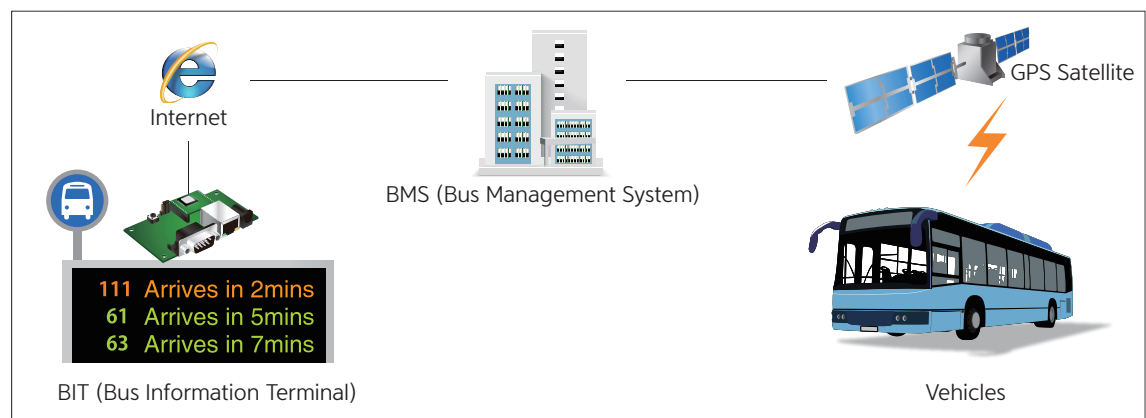
## Overview

CSE-B63N2 is an embedded RS232/RS485 to Ethernet board which CSE-M53N is integrated. CSE-B63N2 is offered with an evaluation board and it becomes much easier to embed CSE-M53N in your system by getting rid of the time burden to build an additional circuit on your own. The basic concept of this RS232/RS485 to Ethernet board is quickly and easily adding networking capabilities to your serial equipment, which helps you remotely control and monitor them from anywhere in the world. As well as general functions, it provides developed features such as security options (SSL3.0/TLS1.0, IP filtering, Password), a separator for packet fragmentation, and particularly IPv4/IPv6 dual stacks that make you be prepared for moving forward to next generation Internet protocol, IPv6. Thanks to these benefits, CSE-B63N2 can be used for various industrial applications: RFID System, Remote Monitoring System, Extending distance between two devices through the LAN, etc.

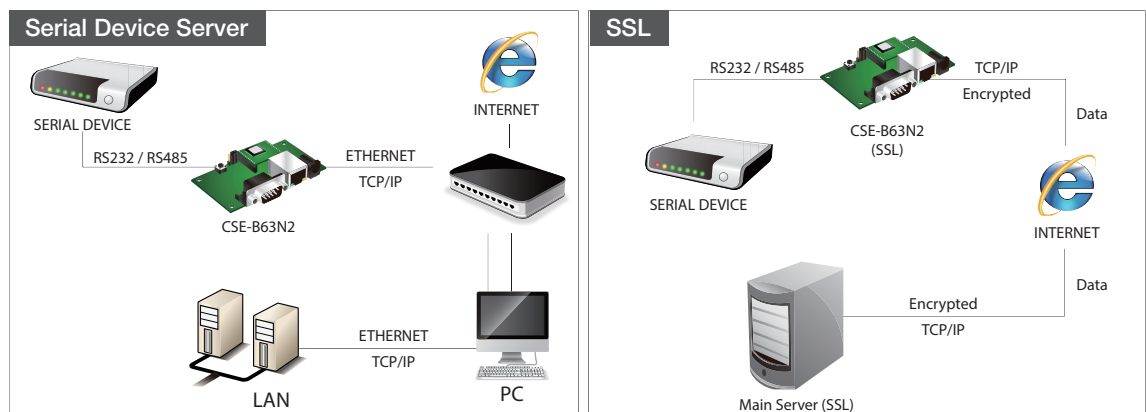
## Features

- IPv4 / IPv6 dual stack
- Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
- Stateless / Stateful (DHCPv6) address autoconfiguration
- Security options (SSL3.0/TLS1.0, IP filtering, Password)
- Separator settings for packet fragmentation
- High speed RS232/RS485 x 1 (up to 921.6Kbps)
  - In case of using Xon/Xoff, the maximum data rate of the UART is limited to 230.4Kbps
  - Built-in biasing resistance (3.9Kohm)
- Reverse voltage, Surge protection
- Industrial temperature range (-40°C ~ +85°C)

## Application



## System Diagram



# Specifications

<b>Serial Physical Interface</b>	
<b>Serial Interface</b>	RS232 - RXD, TXD, CTS, RTS, GND RS485 - TRX+, TRX-, GND (Built-in 3.9Kohm biasing resistance)
<b>Connector</b>	9 pin D-sub male
<b>Serial Port Properties</b>	
<b>Baudrate</b>	300 bps ~ 921,600 bps
<b>Data Bits</b>	8bits, 7bits with parity
<b>Parity</b>	None, Even, Odd, Mark, Space
<b>Stop Bit</b>	1, 1.5, 2
<b>Network Physical Interface</b>	
<b>Network Interface</b>	10Base-T/100Base-TX Ethernet Ethernet Speed Auto Sense 1:1 or Cross-over Cable Auto Sense
<b>Software Functions</b>	
<b>Protocols</b>	IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6 TCP, UDP, IP, ICMP, ARP, TELNET DHCP, PPPoE, DNS, DDNS
<b>Security</b>	SSL (Secure Socket Layer) IP & MAC filtering - Restrict host or network Password for Configuring
<b>Communication Mode</b>	TCP Server (T2S) TCP Client (COD) TCP Server/Client with AT Command (ATC) - Patent UDP Mode (U2S)
<b>Additional Functions</b>	Separator settings for packet fragmentation TCP Server/Client Mode Sending MAC address Option
<b>Indicators (LEDs)</b>	
<b>PWR</b>	Red
<b>Serial TXD</b>	Green
<b>Serial RXD</b>	Green
<b>Serial RTS</b>	Green
<b>Serial CTS</b>	Green
<b>TCP</b>	TCP Connection Indicator (Green)
<b>STS</b>	The Current Status (Green)
<b>Ethernet Link</b>	Green
<b>Ethernet RXD</b>	Green
<b>Ethernet TXD</b>	Green
<b>Supplementary Software</b>	
<b>ezManager</b>	Configuration Tool for Windows
<b>Telnet</b>	Serial to Network Virtual Driver for Windows
<b>AT Command</b>	Simple TCP/IP Communication Test Tool
<b>Dimension</b>	
<b>Size</b>	80.0mm x 44.0mm x 17.0mm
<b>Operating Environment</b>	
<b>Input Voltage</b>	DC 5V ±0.5V
<b>Current Consumption</b>	170mA (100M Ethernet), 200mA (10M Ethernet)
<b>Protection</b>	Surge Protection / Reverse Voltage Protection
<b>Operating Temperature</b>	-40°C ~ +85°C
<b>Storage Temperature</b>	-40°C ~ +85°C