SE-110S
Serial-to-Ethernet Module with on-board RS-232 driver

- ☑ Adds Ethernet connectivity for RS-232 devices
- ☑ 10/100Mbps Ethernet; 38,400bps serial data rate
- ☑ Supports TCP/Server, TCP/Client and UDP mode
- ☑ Provides four TTL-level programmable digital I/Os
- ☑ Web/Telnet/Serial consoles for device configuration
- ☑ Windows utility included for device management
- ☑ Firmware upgradeable

Introduction

The SE-110S is a mini-mighty Serial-to-Ethernet embedded module which adds network function for legacy RS-232 devices. The SE-110S provides a transparent data channel between RS-232 device and the TCP/IP network, so that the device can be accessed by using standard TCP/IP protocols.

Versatile Operation Modes

The SE-110S can behave as a TCP server, a TCP client or an UDP node on a Ethernet network to fulfill versatile application requirements.

Programmable Digital I/O

Besides, the SE-110S also provides 4 TTL digital I/Os. A pre-defined ASCII command set is provided for users to control these I/Os through LAN/WAN.
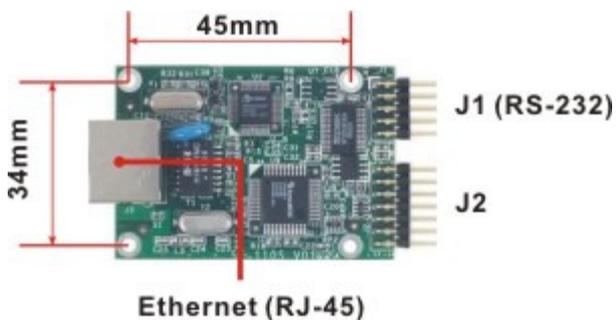
Specifications

Form Factor
- ▷ Type: stand alone module with mounting holes
- ▷ WxLxH: 57x40x15mm (PCB)

Network Interface
- ▷ Type: 10/100BaseT, auto-detect
- ▷ Protocols: TCP, UDP, HTTP, Telnet, IP, ICMP, ARP
- ▷ IP addressing: DHCP, Static IP

Operation Modes
- ▷ TCP/Server, TCP/Client and UDP mode

RS-232 Interface (line driver included)
- ▷ Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
- ▷ Baud: 1,200 to 38,400 bps
- ▷ Parity: None, Even, Odd
- ▷ Data bits: 7,8
- ▷ Stop bit: 1,2
- ▷ Flow control: None, RTS/CTS, XON/OFF

Programmable Digital I/O
- ▷ PIO0~PIO3: TTL level compatible

Configuration Methods
- ▷ Web console, Telnet Console and Serial Console
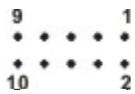- ▷ Windows utility (included in CD)

General
- ▷ Power input: 5VDC
- ▷ Power consumption: 120mA@+5VDC
- ▷ Operation temp.: 0~70C, 5~95% RH
- ▷ Storage temp.: -20~85C, 5~95% RH
- ▷ Regulation: CE/FCC compliant
- ▷ Warranty: 2 years

Pin Assignment

J1 (RS-232)

PIN	GPIO
1	DCD
2	Rx
3	Tx
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	---
10	---

```
9  . . . . 1
   . . . . .
10 . . . . 2
```

J2

PIN	GPIO
1	GND
2	SW1
3	Reset
4	PIO3
5	Ready
6	PIO2
7	100M_LED
8	PIO1
9	10M_LED
10	PIO0
11	+5V
12	GND
13	+5V
14	GND

```
13 . . . . . . 1
   . . . . . . .
14 . . . . . . 2
```

Block Diagram
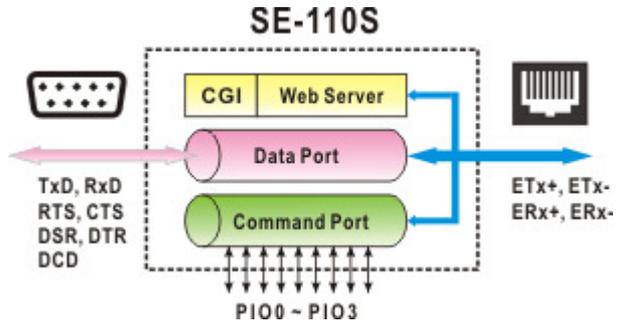
Ordering Information

✉ **SE-110S**

Serial-to-Etherent Module with on-board RS-232 driver