

# SBL2e X

## 1-Port Serial to Ethernet Server

100 Version



# DATASHEET

### Key Points

- Serial to Ethernet server
- RS-232 serial device support
- Works out of the box - no programming is required
- Metal enclosure
- Rebrand with your custom product label
- Customize with development kit

### Features

- 10/100Mbps Ethernet
- TCP/UDP/Telnet modes
- DHCP/Static IP modes
- Web or AT command based configuration
- 32-bit performance
- Industrial temperature range (-40°C to 85°C)
- Standard and custom baud rates with factory application
- Custom serial packetization options
- DB9 connector interface

### Optional

*The following features are available with the optional development kit:*

- Customize any aspect of operation including web pages, data filtering, or custom network applications
- Up to three serial ports



## Factory Application Specifications

### Serial Port Baud Rate

Standard or custom baud rates with factory application

### Serial Configurations

This device has a single DB9 interface with support for RS-232 serial devices. The interface connector can be configured in one of the following ways:

- 1) One full featured serial port with hardware or software flow control:
  - UART 1 with RX, TX, RTS, CTS, RI, CD, DTR, DSR
- 2) Two serial ports - one with software flow control, the other with hardware or software flow control (development kit required):
  - UART 0 with TX and RX
  - UART 1 with TX, RX, RTS, CTS
- 3) Three serial ports - all with software flow control (development kit required):
  - UART 0 with TX and RX
  - UART 1 with TX and RX
  - UART 2 with TX and RX

## Hardware Specifications

### Processor

32-bit Freescale ColdFire 52236 running at 50 MHz

### Network Interface

10/100 BaseT with RJ-45 connector

### Data I/O Interface

- One UART is supported with the factory application
- Up to three UARTs (development kit required)

### LEDs

Links, Speed

### Physical Characteristics

Dimensions (inches): 3.10" x 2.15" x .925"

### Power

DC Input Voltage: 5-24V @ 2W max

### Environmental Operating Temperature

-40° to 85° C

### RoHS Compliance

The Restriction of Hazardous Substances guidelines ensure that electronics are manufactured with fewer environment harming materials.

### Agency Approvals

UL, C/UL, CE, FCC



## Front and Back Panel



Front Panel



Back Panel

## Connector Interface Description and Pinouts

The SBL2e X device has one DB9 connector which enables you to quickly and easily connect to your serial devices. Table 1 provides descriptions of pin function for the Serial Port Connector (Port 1).

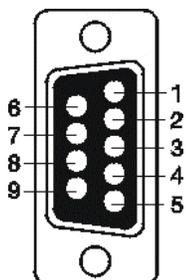
Table 1: Serial Port Connector (Port 1) Pinout and Signal Description<sup>1</sup>

Pin	CPU Pin	Function	Secondary Function	Description	Max Voltage
1		UART1_CD		UART 1 Carrier Detect	RS-232
2	23	UART1_RX		UART 1 Receive	RS-232
3	24	UART1_TX		UART 1 Transmit	RS-232
4		UART1_DTR	UART0_TX <sup>2</sup>	UART 1 Data Terminal Ready or UART 0 Transmit <sup>2</sup>	RS-232
5		GND		Ground	-
6		UART1_DSR		UART 1 Data Set Ready	RS-232
7	15	<u>UART1_RTS</u>	UART2_TX <sup>2</sup>	UART 1 Request To Send <sup>1</sup> or UART 2 Transmit <sup>2</sup>	RS-232
8	16	<u>UART1_CTS</u>	UART2_RX <sup>2</sup>	UART 1 Clear To Send <sup>1</sup> or UART 2 Receive <sup>2</sup>	RS-232
9		UART1_RI	UART0_RX <sup>2</sup>	UART 1 Ring Indicator or UART 0 Receive <sup>2</sup>	RS-232

**Note:**

1. Active low signals are indicated with an overbar
2. UART0 and UART2 are only available with the development kit

Figure 1: Pin locations for Serial Port Connector (Port 1)



## Part Numbers

### **SBL2e X 1-Port Serial to Ethernet Device**

Part Number: SBL2eX-100IR

### **SBL2e X Development Kit**

Part Number: NNDK-SBL2eX-KIT

Kit includes all the hardware and software you need to customize the included platform hardware.

## Ordering Information

E-mail: [sales@netburner.com](mailto:sales@netburner.com)

Online Store: [www.NetBurner.com](http://www.NetBurner.com)

Telephone: 1-800-695-6828