SBL2e X

1-Port Serial to Ethernet Server
100 Version

NetBurner

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 2 with TX and RX
- UART 1 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

SBL2e X

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).
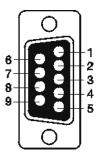
Table 1: **Serial Port Connector (Port 1) Pinout and Signal Description[1]**

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[2]	UART 1 Data Terminal Ready or UART 0 Transmit[2]	RS-232
5		GND		Ground	-
6		UART1_DSR		UART 1 Data Set Ready	RS-232
7	15	$\overline{\text{UART1\_RTS}}$	UART2_TX[2]	UART 1 Request To Send[1] or UART 2 Transmit[2]	RS-232
8	16	$\overline{\text{UART1\_CTS}}$	UART2_RX[2]	UART 1 Clear To Send[1] or UART 2 Receive[2]	RS-232
9		UART1_RI	UART0_RX[2]	UART 1 Ring Indicator or UART 0 Receive[2]	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
Online Store: www.NetBurner.com
Telephone: 1-800-695-6828

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