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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SB700 EX

## 2-Port Serial to Ethernet Server

100 Version



# DATASHEET

### Key Points

- Serial to Ethernet server
- SSL and SSH data encryption to protect from unauthorized monitoring
- RS-232 and RS-422/485 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

- SSH, SSL, HTTPS, certificate support
- 10/100Mbps Ethernet
- TCP/UDP/Telnet modes
- DHCP/Static IP modes
- Web based configuration
- 32-bit performance
- Standard and custom baud rates with factory application

### Optional

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

- Customize any aspect of operation including web pages, data filtering, or custom network applications
- Real-time clock
- MicroSD/MMC Card interface with included flash file system

*The following optional software modules are not included with kit and are sold separately:*

- Embedded SSL & SSH Security Suite (Module License Version)
- SNMP



## Factory Application Specifications

### Serial Port Baud Rate

Factory application supports up to 460,800 bps. Custom rates available with development kit.

### Serial Protocols Supported

RS-232, RS-422, and RS-485

### Serial Configurations

The two UARTs can be configured in the following ways:

- Two RS-232 ports
- One RS-232 port, one RS-485/422 port

## Hardware Specifications

### Processor & Memory

32-bit Freescale ColdFire 5270 running at 147.5MHz with 2Mbytes of on-chip flash, 8Mbytes SDRAM.

### Storage

MicroSD/MMC Flash Card Interface (with SDHC support)

### Network Interface

10/100 BaseT with RJ-45 connector

### Data I/O Interface

- Two UARTs
- Real-time clock

### LEDs

Link, speed/data, power

### Physical Characteristics

Dimensions (inches): 4.20" x 3.25" x 1.00"

### Power

DC Input Voltage: 7V-24V DC  
12V @ 90mA

### Environmental Operating Temperature

-40° to 85° C (SB700EX-100IR version)  
0° to 70° C (SB700EX-100CR version)

### 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



## Connector Interface Description and Pinouts

The back panel has two DB9 ports which enable you to connect to a serial device. Tables 1 and 2 provide descriptions of the function of each pin for Port 0 and Port 1.

**Table 1: Serial Port Connector (Port 0) Pinout and Signal Description<sup>1</sup>**

| Pin | RS-232 Function | RS-485 Function | Description                                      | Max Voltage          |
|-----|-----------------|-----------------|--|----------------------|
| 1   | CD              | -               | Carrier Detect                                   | RS-232               |
| 2   | RX              | FD TX- / HD-    | Receive or Full Duplex Transmit- / Half Duplex-  | RS-232 or RS-422/485 |
| 3   | TX              | FD TX+ / HD+    | Transmit or Full Duplex Transmit+ / Half Duplex+ | RS-232 or RS-422/485 |
| 4   | DTR             | -               | Data Terminal Ready                              | RS-232               |
| 5   | GND             | GND             | Ground   | -                    |
| 6   | DSR             | FD RX-          | Data Set Ready or Full Duplex Receive-           | RS-232 or RS-422/485 |
| 7   | RTS             | FD RX+          | Ready to Send or Full Duplex Receive+            | RS-232 or RS-422/485 |
| 8   | CTS             | -               | Clear to Send                                    | RS-232               |
| 9   | RI              | -               | Ring Indicator                                   | RS-232               |

**Note:**

1. Port 0 can be configured to as RS-232 or RS-485

**Table 2: Serial Port Connector (Port 1) Pinout and Signal Description**

| Pin | Port 1 RS-232 | Description         | Max Voltage |
|-----|---------------|---------------------|-------------|
| 1   | CD            | Carrier Detect      | RS-232      |
| 2   | RX            | Receive             | RS-232      |
| 3   | TX            | Transmit            | RS-232      |
| 4   | DTR           | Data Terminal Ready | RS-232      |
| 5   | GND           | Ground              | -           |
| 6   | DSR           | Data Set Ready      | RS-232      |
| 7   | RTS           | Ready to Send       | RS-232      |
| 8   | CTS           | Clear to Send       | RS-232      |
| 9   | RI            | Ring Indicator      | RS-232      |

## Part Numbers

### **SB700 EX 2-Port Serial to Ethernet Server**

Part Number: SB700EX-100IR

### **DIN Rail Mounting Kit (100 Version, double sided)**

Part Number: DIN-100

### **DIN Rail Mounting Kit (200 Version, single sided)**

Part Number: DIN-200

### **SB700 EX Development Kit**

Part Number: NNDK-SB700EX-KIT

Kit includes all the hardware and software you need to customize the included platform hardware. See NetBurner Store product page for package contents.

### **Embedded SSL & SSH Security Suite (Module License Version)**

Part Number: NBLIC-SSL-MODULE

Only required if you are using a development kit (SSH/SSL functionality is included in the pre-programmed application).

### **SNMP V1 (Module License Version)**

Part Number: NBLIC-SNMP

Available as an option if you are using a development kit.

## Ordering Information

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

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