Key Points
- Serial to Ethernet server
- 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
- 10/100Mbps Ethernet
- TCP/UDP/Telnet modes
- DHCP/Static IP modes
- SSL/TLS 1.3
- Web based configuration
- 32-bit performance

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
- Additional baud rates available
Factory Application Specifications

Serial Port Baud Rate
Factory application supports up to 115,200 baud. Higher baud rates are available with development kit, but require custom programming.

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 and Memory
32-bit Freescale ColdFire 5272 running at 62.5MHz with 2MB of flash and 8MB of SDRAM.

Network Interface
10/100 BaseT RJ-45 connector

Data I/O Interface
- Two UARTs

LEDs
Link, speed/data, power

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

Power
Power Input: 7-24 VDC
Power Consumption: Typical 2W
Max 3W
Weight: 6.1 oz

Environmental Operating Temperature
0° to 70° 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
## Connector Interface Description and Pinouts

### Table 1: Serial Port Connector (Port 0) Pinout and Signal Description

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

**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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Port 1 RS-232</th>
<th>Description</th>
<th>Max Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CD</td>
<td>Carrier Detect</td>
<td>RS-232</td>
</tr>
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<td>Data Terminal Ready</td>
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</tr>
</tbody>
</table>
Part Numbers

SB72 EX 2-Port Serial to Ethernet Server
Part Number: SB72-EX-100CR

DIN Rail Mounting Kit (100 Version, double sided)
Part Number: DIN-100

DIN Rail Mounting Kit (200 Version, single sided)
Part Number: DIN-200

SB72 EX Development Kit
Part Number: NNDK-SB72EX-KIT
Kit includes all the hardware and software you need to customize the included platform hardware. See NetBurner Store product page for package contents.

Ordering Information
E-mail: sales@netburner.com
Online Store: www.NetBurner.com
Telephone: 1-800-695-6828