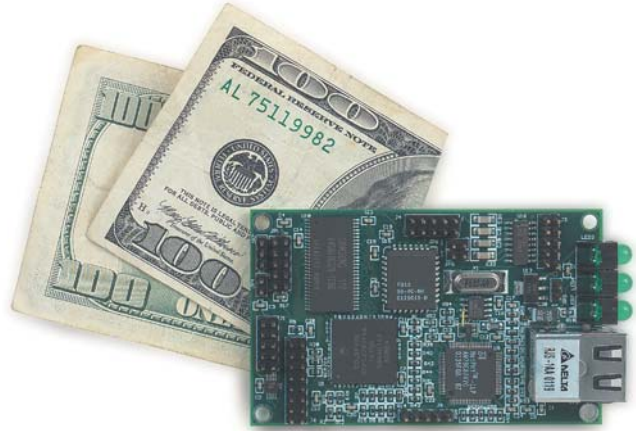




# SB70 10/100BaseT Serial-to-Ethernet Device



## Features

- Instantly allows any serial device to communicate over a network or the Internet
- Development kit available. The SB70 can be used as a single board computer for custom applications.
- Includes TCP/IP, Telnet, SNMP, and Web Server (HTTP)
- Supports TTL
- Web page configuration
- Powerful 32-bit Motorola ColdFire processor with integrated 10/100 Ethernet MAC
- 512k Flash  
2MB SDRAM

The SB70 is a low cost, high performance single board computer that network-enables both existing and new product designs with 10/100BaseT Ethernet. Based on the Freescale ColdFire 5270 32-bit processor with an integrated 10/100 Ethernet MAC, the SB70 has plenty of horsepower for the most demanding applications (rated at 141 MIPS with 147.5 MHz clock).

### Network-Enable Existing Applications:

The SB70 network-enables serial devices right out of the box. No programming or development is required; the SB70 is pre-programmed to convert TTL data to Ethernet, enabling communication with the serial device over a network or the Internet. The onboard web server provides easy device configuration using a standard web server.

### Network-Enable New Applications

Mount the SB70 on an application-specific motherboard, and you have a powerful processing platform that can function as the control processor for the product, or as a serial to Ethernet converter.

### Customize to Suit Any Application

The SB70 development kit enables you to quickly and easily create custom applications. NetBurner has a solid reputation for development platforms to facilitate rapid product development, and the SB70 is no exception. The SB70 development kit includes the hardware platform, TCP/IP Stack, uC/OS Real-time operating system, Web Server, GNU C/C++ compiler and linker, GDB graphical debugger, end-user device configuration and flash update utilities, and much more. See the NNDK-SB70-KIT datasheet for more information or visit [www.netburner.com](http://www.netburner.com).

### Real 32-Bit Performance

The SB70 is the leader for low cost, high performance embedded networking. While other products in this price range are 8-bit processors with small amounts of paged memory and limited performance, the Freescale ColdFire 5270 is a full 32-bit high performance processor. The SB70 has 2MBytes of SDRAM providing plenty of space for applications and buffering.

**Processor**

32-bit Motorola ColdFire 5270 with integrated 10/100 Ethernet MAC

**Network Interface**

10/100BaseT with RJ-45 connector

**Network Protocols Supported**

ARP, DHCP, BOOTP, TCP, UDP, ICMP, Telnet, HTTP, SNMP.

Note: additional protocols supported with development kit.

**Serial Ports Supported**

2 TTL.

**SNMP**

Supports MIB-II

**LED's**

Link, Speed/Data, Power

**Physical Characteristics**

Dimensions: 3.25" x 2"

Weight: 1.1 oz

Mounting Holes: 4

**Power Requirements**

480mA @ 5V

**Environmental**

Operating Temperature: 0 - 70°C

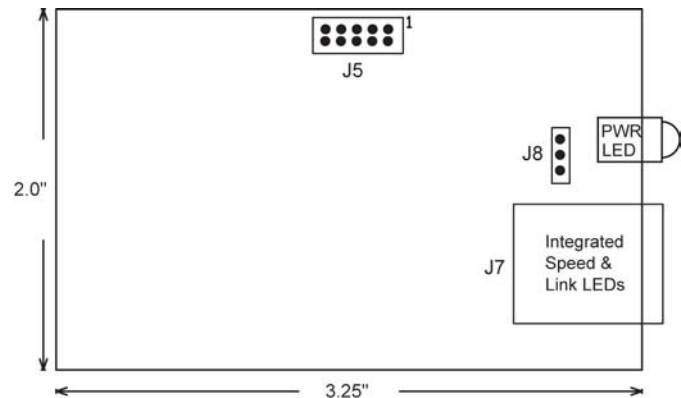
**Ordering Information**

P/N: SB70-100 - Board assembly

P/N: NNDK-SB70-KIT - Development Kit

## SB70 Connector Diagram

| Connector | Description                       |
|-----------|-----------------------------------|
| J5        | TTL, 10-pin dual row header       |
| J7        | Ethernet, RJ-45 connector         |
| J8        | 5V Power, 3-pin single row header |



## Contact Information

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