



Features

- Instantly allows any serial device to communicate over a network or the Internet
- Two serial ports
- 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 Freescale ColdFire processor with integrated 10/100 Ethernet MAC
- 512K Flash, 2MBytes SDRAM

* SNMP support through factory application

SB70

NetBurner's Low Cost High Performance Serial to Ethernet Board

Introduction

The SB70 is a low cost, high performance single board computer that networkenables 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 browser.

Network Enable New Applications

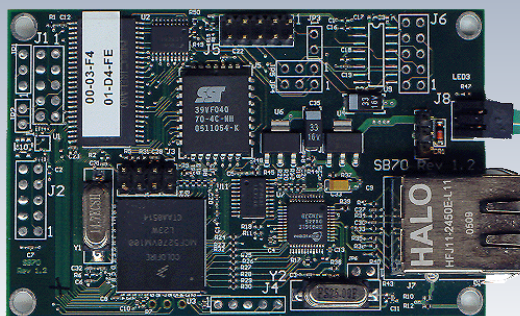
Mount the SB70 on an application-specific motherboard, and you have a powerful processing platform that can function as the control processor for the product, or as a serial to Ethernet converter.

Customize to Suit Any Application

The SB70 development kit enables you to quickly and easily create custom applications. NetBurner has a solid reputation for developing platforms facilitating rapid product development; 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 NetBurner Serial to Ethernet Datasheet for more information or visit 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.



Specifications

Processor

32-bit Freescale ColdFire 5270 running at 141MHz

Software Development

NetBurner Serial to Ethernet Development Kit includes: SB70, Adapter Board, TCP/IP stack, Web Server, real-time operating system (RTOS), ANSI C/C++ compiler and linker, assembler, graphical debugger, integrated development environment (IDE), code update, configuration, and deployment tools.

Network Interface

10/100 BaseT with RJ-45 connector

Max Baud Rate

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

Network Protocols Supported

Complete protocol support included. Please reference NetBurner Software Datasheet (www.NetBurner.com)

Serial Protocols Supported

2 TTL

SNMP

Supports MIB-II

Note: SNMP support through factory application

LEDs

Link, Speed/Data, Power

Physical Characteristics

Dimensions: 3.25" x 2"

Weight: 1.1 oz

Mounting Holes: 4

Power Requirements

DC Input Voltage: 5V @500mA

Environmental

Operating Temperature: 0°C to 70°C

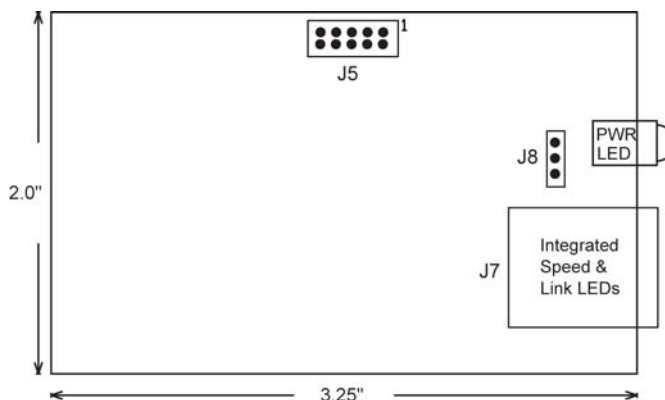
Part Number and Description

SB70-100CL	Board Assembly
SB70-100CR	Board Assembly
NNDK-SB70-KIT	Development Kit

SB70 Connector Descriptions

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

SB70 Connector Diagram



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