N e t B u r n e r

Networking in 1 Day!

Features

- Instantly allows any serial device to communicate over a network or the Internet

- Two serial ports

- Development kit available. The SB72-EX can be used as a single board computer for custom applications

- Includes TCP/IP, Telnet, SNMP*, and Web Server (HTTP)

- Supports RS-232 and RS-422/485 serial devices

- Web page configuration

- 2MB Flash, 8MBytes SDRAM

  * SNMP support through factory application

SB72-EX
NetBurner's Easy to Use High Performance Serial to Ethernet Device

Introduction

The SB72-EX is a low cost, high performance Serial-to-Ethernet device that network enables both existing and new product designs with 10/100BaseT Ethernet. Based on the Freescale ColdFire 5272 32-bit processor with an integrated 10/100 Ethernet, the SB72-EX has plenty of horsepower for the most demanding applications. The SB72-EX is also a fully customizable platform. With the SB72-EX development kit you can create additional dynamic web page content, filter serial and network data, or write completely new custom applications.

Network Enable Existing Applications

The SB72-EX network enables serial devices right out of the box. No programming or development is required. The SB72-EX is pre-programmed to convert RS-232, RS-422 and RS-485 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.

Customize to Suit Any Application

The SB72-EX development kit enables you to quickly and easily create custom applications. NetBurner has a solid reputation for developing platforms facilitating rapid product development; The SB72-EX is no exception. The SB72-EX development kit includes the SB72-EX, 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 SB72-EX 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 5272 is a full 32-bit high performance processor. The SB72-EX has 8MBytes of SDRAM providing plenty of space for applications and buffering.

Specifications

Processor
32-bit Freescale ColdFire 5272 running at 62MHz

Software Development
NetBurner Serial to Ethernet Development Kit includes: SB72-EX Device, 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 avaliable 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
RS-232, RS-422, and RS-485

Serial Configurations
The 2 UARTS can be configured in the following ways:

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

SNMP
Supports MIB-II
Note: SNMP support through factory application

LEDs
Link, Speed/Data, Power

Physical Characteristics
Dimensions: 4.2" x 3.25" x 1"

Power Requirements
DC Input Voltage: 7-24V

Environmental
Operating Temperature: 0°C to 70°C

SB72-EX DB-9 Serial Connector Descriptions

Pin	Port 0* RS-232	Port 0* RS-485	Port1 RS-232
1	CD	-	CD
2	RX	HD- / FD TX-	RX
3	TX	HD+ / FD TX+	TX
4	DTR	-	DTR
5	GND	GND	GND
6	DSR	FD RX-	DSR
7	RTS	FD RX+	RTS
8	CTS	-	CTS
9	RI	-	RI

*Port 1 can be configured as RS-232 or RS-485

SB72-EX DB-9 Serial Connectors

Ordering Information

Part Number and Description
SB72-EX-100CL   SB Hardware
SB72-EX-100CR   SB Hardware RoHS
NNDK-SB72EX-KIT   Development Kit

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