



# SB70 Development Kit NNDK-SB70-KIT

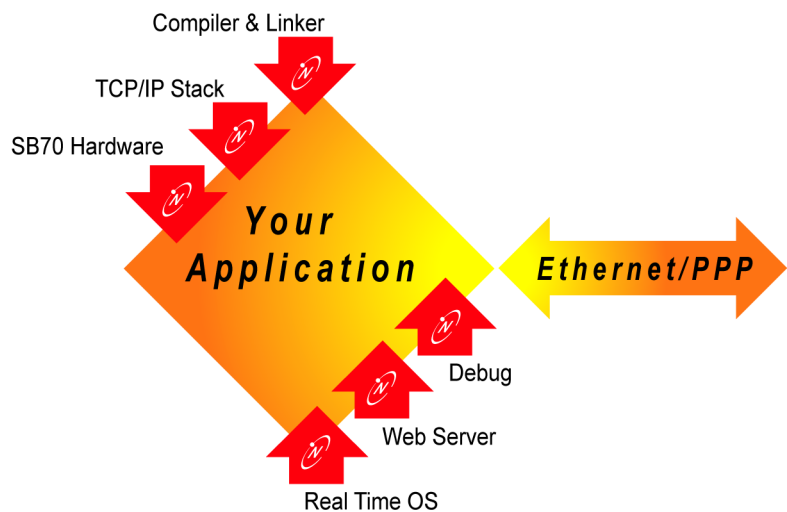


## Features

- Complete set of development tools to write applications for the SB70
- Includes TCP/IP Stack, Web Server, uC/OS, GNU C/C++, GDB graphical Debugger, SB70 board, SB70 Adapter board, and configuration utilities
- Create custom web pages
- Modify existing serial protocols or create new protocols
- Use the SB70 as a powerful single board computing platform
- 32-bit Freescale ColdFire processor with integrated 10/100 Ethernet MAC
- SB70 contains 512k of Flash, 2MB SDRAM

## Customize the SB70 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.



## Key Benefits

- NetBurner hardware and software is fully tested and ready for your application
- No Porting! The integration effort has already been done and all components work together perfectly.
- You can be up and running immediately

### Kit Contents

- SB70 board assembly
- SB70 adapter board to assist in development. It is not required to operate the SB70. The adapter board includes a switching power supply, RS-232 level shifters and two DB-9 connectors.
- CD-ROM containing source code, development tools, manuals and documentation.
- Cross-wired and straight-through twisted pair network cables
- Serial cable
- 12 VDC power supply (US and Canada only)

### Processor

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

### Network Interface

- 10/100BaseT with RJ-45 connector

### Network Protocols

- ARP
- BOOTP
- DHCP
- TCP
- UDP
- ICMP
- HTTP
- FTP
- POP3
- IGMP V2
- PPP
- SMTP
- DNS
- SNMP

### Network Services

- Email
- Web Server
- Telnet
- Multicast
- Ping

### SNMP

SNMP is an optional software module and includes:

- SNMP V1, MIBII
- MIB Compiler generator

### Utilities

- Single build command to compile, link, process HTML code, network download to flash, program flash, and reboot target board in just seconds.
- Automatic compile and processing of dynamic HTML and Java
- Network device configuration
- Flash memory updates

### uC/OS Real-Time OS

- Preemptive, priority scheduling
- Semaphores
- Mail Boxes
- Message Queues
- FIFO's
- Timers
- Stack Checking
- Task debugging tools

### Web Server

- Supports Dynamic HTML
- Supports Forms, Cookies and Passwords
- A project directory of HTML documents, gifs, and JAVA classes is compressed into a file that is embedded in the run-time application

### Email

- Send and receive email through an Ethernet or PPP connection

### Runtime Environment

- Complete I/O system supports TCP, Telnet, and both Serial ports. I/O includes read, write, select, fprintf and fscanf functionality
- User Parameter Flash storage routines
- Applications are stored compressed in on-board Flash, and decompressed into RAM at start up. This provides the same environment for RAM based debugging and the end application. Reduces the risk of releasing your product. It runs like it was built
- Embedded Monitor supports serial and network code updates
- Programmable default exception handling

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