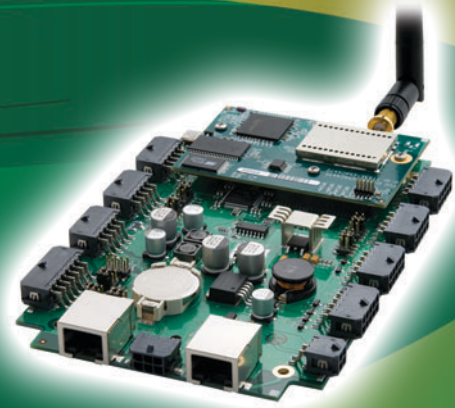


SBC BL4S200

Single-Board Computer

Rabbit's BL4S200 series of single-board computers deliver the features and wireless connectivity to support networking for industrial control applications.



Overview

Rabbit's BL4S200 single-board computers (SBCs) offer a full-featured control and communications solution for industrial applications. The BL4S200 series is designed to provide the microprocessor control and I/O used for reading instruments, timing events precisely, controlling motors, relays and solenoids.

Why SBCs Are Important

Rabbit combines its legendary ease of use with cost-competitive hardware and software to make designing embedded applications straightforward. Rabbit's flexible platform gives customers the ability to choose the right product for their application, while reducing effort and cost.

Many customers take advantage of Rabbit's SBCs to get their product to market quickly and reliably. Rabbit adds further value by allowing migration paths to either RabbitCore® modules or the chip level solution, while keeping the same Dynamic C® software development environment.

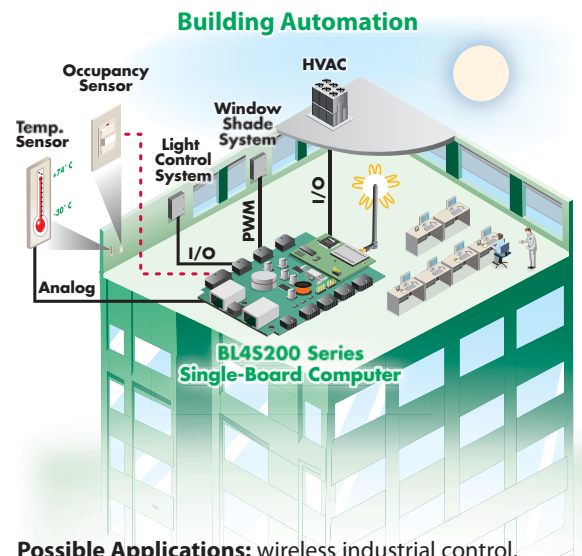
Starter Package

The affordable BL4S200 series starter package includes all the tools you need to develop and debug a design.

FROM
\$328



Application Highlight



Possible Applications: wireless industrial control, automatic meter reading, encrypted connectivity, data logging

Features and Benefits

- Uses Rabbit® 4000 and Rabbit 5000 microprocessors
- Choice of Wi-Fi, ZigBee or Ethernet connectivity
- 40 digital I/O and up to 5 serial ports
- 8 input and 2 output analog channels
- Advanced I/O subsystem is software configurable reducing the load on the processor
- I/O features include event/capture counting, quadrature decoders, PWMs and PPMs

The Rabbit RIO® Advantage

The BL4S200 series uses our Rabbit RIO chip to add a powerful I/O subsystem. The on-board Rabbit RIO devices add software configurable counter/timer blocks that can perform a variety of useful I/O capability, including event capture/counting, quadrature decoding, PWM and PPM generation, and edge or level based interrupts. This subsystem capability delivered by the Rabbit RIO device frees the microprocessor for control, data processing and communications tasks. Each BL4S200 board has 24 counter/timer blocks available in the I/O subsystem.

RabbitNet™ Compatible

RabbitNet expansion ports enable a modular and expandable embedded control system whose configuration of expansion cards can be tailored to a large variety of demanding real-time control, display and data-acquisition applications. A typical RabbitNet system consists of a master SBC and one or more peripheral cards.

Available RabbitNet Expansion Cards:

- Digital I/O expansion
- A/D expansion
- D/A expansion
- Relay expansion
- Keypad/Display interface

Development and Evaluation Tools

The BL4S200 Tool Kit contains the essential hardware to develop an embedded application on a BL4S200 SBC and debug right on the target hardware.

Tool Kit Contents:

- Dynamic C® CD-ROM, with complete product documentation
- Printed getting started manual and Rabbit 4000/5000 posters
- Demonstration board with pushbutton switches and LEDs to demonstrate the I/O capabilities of the BL4S200
- USB programming cable to connect the BL4S200 to your PC's USB port
- Universal AC adapter, 12 V DC, 1 A (includes Canada/ Japan/U.S., Australia/N.Z., U.K., and European style plugs)

The BL4S200 Starter Kit includes your choice of the BL4S200 series and the BL4S200 Tool Kit. The BL4S200 Starter Kit contains the essential hardware and software tools to develop and debug an embedded application.

BL4S200

Mass storage support with the hot-swappable, industry-standard miniSD™ memory cards, plus memory to support algorithmic-intensive applications such as graphics and encryption.

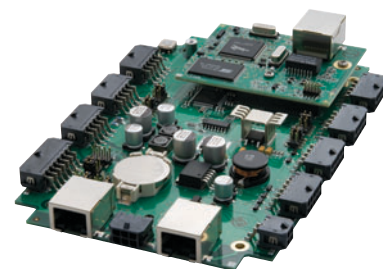
- Uses RCM4310 RabbitCore module
- 10/100Base-T Ethernet connectivity
- Socket for up to 1 GB miniSD memory card
- Part Number: 20-101-1220



BL4S210

Targeted for embedded control applications needing 10Base-T Ethernet connectivity for remote monitoring.

- Uses RCM4010 RabbitCore module
- 10Base-T Ethernet connectivity
- Part Number: 20-101-1259



Software

Develop and debug programs using Rabbit's industry-proven Dynamic C integrated development environment (version 10.42 or later). Dynamic C includes the popular μ C/OS-II real-time operating system, point-to-point protocol (PPP), FAT file system, RabbitWeb™ and other select libraries. Connect the BL4S200 board to the PC using a USB cable and then debug using break points, watch expressions and other features oriented toward real-time embedded systems programming. An extensive library of drivers and sample programs is provided, including a royalty-free TCP/IP stack for network and Internet communications. Full source code is provided for most library routines.

Rabbit also offers for purchase the Rabbit Embedded Security Pack featuring the Secure Sockets Layer (SSL) and the Advanced Encryption Standard (AES) library. In addition to the Web-based technical support included at no extra charge, a one-year telephone-based technical support subscription is also available for purchase. Visit www.rabbit.com for further information and complete documentation, or contact your Rabbit sales representative or authorized distributor.

Additional Tools

Rabbit offers additional tools and parts to support engineers building their own wiring assemblies with the friction-lock connectors.

- Connector Cable Assemblies (Part No.151-0153)—Two 2×5 friction-lock connectors (3 mm pitch) with harness.
- Crimp tool (Part No. 998-0013) to secure wire in crimp terminals.

Exceptional Support

Our Technical Support staff helps Rabbit users accelerate development schedules. We offer development kits and tool kits to help our customers learn new technologies, get ideas about how to integrate into embedded systems, and arrive at solutions.

In addition, our staff supports the Rabbit Forum <http://rabbit.com/forums/> where the large community of Rabbit designers can interact to learn more about how to use Rabbit products to solve their design challenges.

When you consider Rabbit, consider all that Rabbit does to support you.

BL4S220

Use industry-standard wireless networking to create a low-cost, Wi-Fi based control and communications solution.

- Uses RCM5400W RabbitCore module
- IEEE 802.11b/g Wi-Fi connectivity
- Part Number: 20-101-1260



BL4S230

Easily implement a wireless mesh network as part of your control solution.

- Uses RCM4510W RabbitCore module
- ZigBee enabled connectivity
- Part Number: 20-101-1261



