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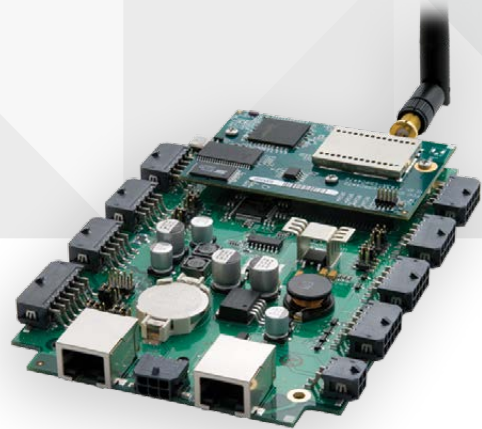
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SINGLE-BOARD  
COMPUTER



# RABBIT SBC BL4S200 SERIES

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

The Rabbit 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 SBCs to get their product to market quickly and reliably. Further value is added by allowing migration paths to either RabbitCore® modules or the chip level solution, while keeping the same Dynamic C® software development environment.

### 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

### RELATED PRODUCTS



ConnectCore®  
6 SBC



Rabbit® SBC  
BL4S100  
Series



Rabbit® SBC  
BL2100  
Series

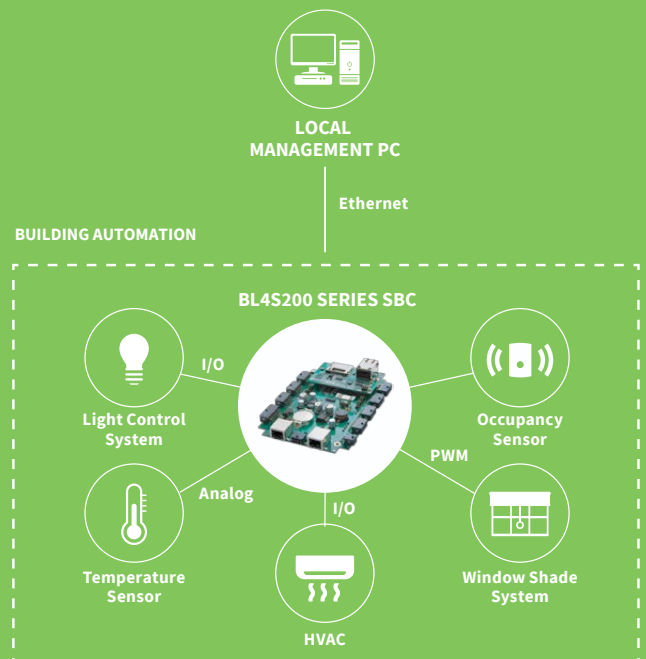


RabbitNet®  
Series



Dynamic C®

### APPLICATION EXAMPLE



## DEVELOPMENT AND EVALUATION TOOLS

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

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.

### TOOL KIT CONTENTS:

- Dynamic C® with complete 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)

## RABBIT SBC BL4S200 SERIES

### BL4S200

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

- Uses RabbitCore® RCM4310 module
- 10/100Base-T Ethernet connectivity
- Socket for up to 1 GB miniSD memory card



### BL4S210

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

- Uses RabbitCore RCM4010 module
- 10Base-T Ethernet connectivity



### BL5S220

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

- Uses RabbitCore RCM5400W module
- IEEE 802.11b/g Wi-Fi connectivity





SPECIFICATIONS	BL4S200	BL4S210	BL5S220
<b>FEATURE</b>			
<b>MICROPROCESSOR</b>	Rabbit® 4000 at 58.98 MHz		Rabbit® 5000 at 73.73 MHz
<b>NETWORK INTERFACE</b>	10/100Base-T, 3 LEDs	10Base-T, 2 LEDs	Wi-Fi (802.11b/g)
<b>FLASH MEMORY (PROGRAM)</b>	512 KB (Serial Flash)	512 KB (Parallel Flash)	1 MB (Parallel Flash)
<b>FLASH MEMORY (DATA STORAGE)</b>	miniSD™ Card 128 MB to 1 GB	N/A	
<b>PROGRAM EXECUTION SRAM</b>	512 KB	N/A	1 MB
<b>DATA SRAM</b>	512 KB		
<b>BATTERY BACKUP</b>	Renata CR2032 or equivalent 3V lithium coin type, 235 mA-h standard, socket-mounted		
<b>CONFIGURABLE I/O</b>	32 individually software-configurable I/O channels may be configured as digital inputs 0–36 VDC, switching threshold 1.4V/1.9V typical, or as sinking digital outputs up to 40V, 200 mA each		
<b>HIGH-CURRENT DIGITAL OUTPUTS</b>	8 outputs individually software-configurable as sinking or sourcing, +40 VDC, 2 A max. per channel		
<b>ANALOG INPUTS</b>	Eight 11-bit res. channels, software-selectable ranges unipolar: 1, 2, 2.5, 5, 10, 20VDC; bipolar ± 1, ±2, ±5, ±10VDC; 4 channels can be hardware-configured for 4–20 mA; 1 MΩ input impedance, up to 4,100 samples/s		
<b>ANALOG OUTPUTS</b>	Two 12-bit res. channels, buffered, 0–10 VDC, ±10 VDC, and 4–20 mA, update rate 12 kHz		
<b>SERIAL PORTS</b>	5 serial ports: <ul style="list-style-type: none"> <li>• 1 RS-485</li> <li>• 2 RS-232 or 1 RS-232 (with CTS/RTS)</li> </ul>	4 serial ports: <ul style="list-style-type: none"> <li>• 1 RS-485</li> <li>• 1 RS-232 (no CTS/RTS)</li> </ul>	5 serial ports: <ul style="list-style-type: none"> <li>• 1 RS-485</li> <li>• 2 RS-232 or 1 RS-232 (with CTS/RTS)</li> </ul>
	1 clocked serial port multiplexed to 2 RS-422 SPI master ports 1 serial port dedicated for programming/debug		
<b>SERIAL RATE</b>	Max. asynchronous rate = 120 Kbps		
<b>HARDWARE CONNECTORS</b>	2 RabbitNet™ RJ-45 connectors <ul style="list-style-type: none"> <li>• 7 polarized 2x5 Micro-Fit connectors, 3mm pitch</li> <li>• 1 polarized 2x7 Micro-Fit connector, 3mm pitch</li> <li>• 1 polarized 2x2 Micro-Fit connector, 3mm pitch</li> <li>• 1 polarized 2x3 Micro-Fit connector, 3mm pitch</li> <li>• Programming port: 2 × 5 IDC, 1.27 mm pitch</li> </ul>		
<b>NETWORK CONNECTORS</b>	1 RJ-45 Ethernet		1 RP-SMA antenna
<b>REAL TIME CLOCK</b>	Yes		
<b>TIMERS</b>	Ten 8-bit timers (6 cascadable, 3 reserved for internal peripherals), one 10-bit timer with 2 match registers		
<b>WATCHDOG/SUPERVISOR</b>	Yes		
<b>POWER</b>	9-36 VDC, 4.5 W max		9-36 VDC, 9 W max
<b>OPERATING TEMPERATURE</b>	-20° C to +85° C (-40° C to +85° C without the miniSD Card)		-30° C to +75° C
<b>HUMIDITY</b>	5% - 95%, non-condensing		
<b>BOARD SIZE</b>	3.75" × 5.75" × 0.95" (96 mm × 146 mm × 24 mm)		3.75" × 5.75" × 0.66" (96 mm × 146 mm × 17 mm)

PART NUMBERS	DESCRIPTION
101-1270	BL4S200 Series Tool Kit
20-101-1220	BL4S200 (RCM4310-based)
20-101-1259	BL4S210 (RCM4010-based)
20-101-1260	BL5S220 (RCM5400-based)

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