

SBC BL4S100 Series

Single-board computer

Overview

Models

Specs

Documentation

Related Products

Features

Microprocessor

Rabbit® 4000 at 40 MHz

Ethernet Interface

10Base-T

ZigBee® Interface

BL4S100:
ZigBee PRO Feature Set



BL4S150:
ZigBee PRO Feature Set

BL4S160:
N/A

Serial Flash Memory (Program)

BL4S100:
1 MB

BL4S110:
1 MB

BL4S150:
2 MB

BL4S160:
2 MB

Program Execution SRAM

BL4S100:
512 KB

BL4S110:
512 KB

BL4S150:
1 MB

BL4S160:
1 MB

Data SRAM

512 KB

Backup Battery

Panasonic CR2032 or equivalent 3 V lithium coin type, 235 mA·h standard, socket-mounted

Digital Inputs

12: protected to ±36 V DC, switching threshold 1.4 V/1.9 V typical

Digital Outputs

8: sink up to 200 mA each, 36 V DC max.

Analog Inputs

Eight 11-bit res. channels, software-selectable ranges unipolar: 1, 2, 2.5, 5, 10, 20 V DC
4 channels can be hardware-configured for 4–20 mA; 1 M Ω input impedance, up to 4,100 samples/s

Serial Ports

3 serial ports:

- 2 RS-232 or 1 RS-232 (with CTS/RTS)
- 1 serial port dedicated for programming/debug

Serial Rate

Max. asynchronous rate = CLK/8, Max. synchronous rate = CLK/2

Hardware Connectors

Micro-Fit® connector: 1 polarized 2 × 2 with 3 mm pitch (power); Screw-terminal connectors (accept up to 14 AWG/1.5 mm² wire): four 1 × 9 (I/O), one 1 × 6 (serial); Programming port: 2 × 5 IDC, 1.27 mm pitch

Ethernet Network Connector

1 RJ-45 Ethernet

Real-Time Clock

Yes

Timers

Ten 8-bit timers (6 cascadable, 3 reserved for internal peripherals), one 10-bit timer with 2 match registers

Watchdog/Supervisor

Yes

Power

9–36 V DC, 2 W max.

Operating Temperature

-40° C to +85° C

Humidity

5–95%, non-condensing

Board Size

3.75" × 5.75" × 0.64" (96 mm × 146 mm × 16 mm)

ZigBee RF Module

RF Module

Digi XBee® ZB (ZigBee Pro Feature Set)

Security

AES Encryption

RF Data Rate

250 Kbps

Pricing

Price (qty. 1) and Part Number

BL4S100:
\$149; 20-101-1255

BL4S110:
\$129; 20-101-1256

BL4S150:
\$159; 20-101-1257

BL4S160:
\$139; 20-101-1258

BL4S100 Series Starter Package Part Number

BL4S100:
\$248
20-101-1255
101-1268

BL4S110:
\$228

20-101-1256
101-1268

BL4S150:
\$258
20-101-1257
101-1268

BL4S160:
\$238
20-101-1258
101-1268

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