



ETHERNET-ENABLED
SINGLE-BOARD
COMPUTER



RABBIT SBC BL2600 SERIES

Best suited for industrial control applications
and is a low-cost PLC alternative

The BL2600 series represents a class of advanced single-board computers that incorporates the powerful Rabbit 3000 microprocessor, Flash memory and RS-232/RS-485 serial ports. Additional module variants enable data logging of up to 1 GB in data storage. Functionality of the BL2600 series can be expanded using optional RabbitNet™ expansion cards.

The BL2600 series can be connected via two mechanisms: Dual-entry IDC through-hole sockets, which allow header mounting on either side of the board, and polarized locking industry-standard friction-lock connectors that enable rapid assembly with a wire harnesses. These connectors provide

dependable cable harness connectivity to I/O. RabbitNet expansion boards are available (including A/D, D/A, digital I/O and keypad/display interface cards) to interface via the two multiplexed SPI RS-422 ports.

BENEFITS

- Rabbit® 3000 microprocessor at 44 MHz
- 10/100Base-T Ethernet, RJ-45
- 512K Flash/512K SRAM
- 36 digital I/O (configurations include protected digital inputs, sinking/sourcing outputs, high current outputs)
- 12 analog channels: eight 11-bit A/D, four 12-bit D/A buffered outputs
- RabbitNet expansion ready
- Multiple “core module” options allow flexibility in functionality

RELATED PRODUCTS



Rabbit® SBC
BL2100
Series



Rabbit® SBC
BL4S200
Series



Rabbit® SBC
BL4S100
Series

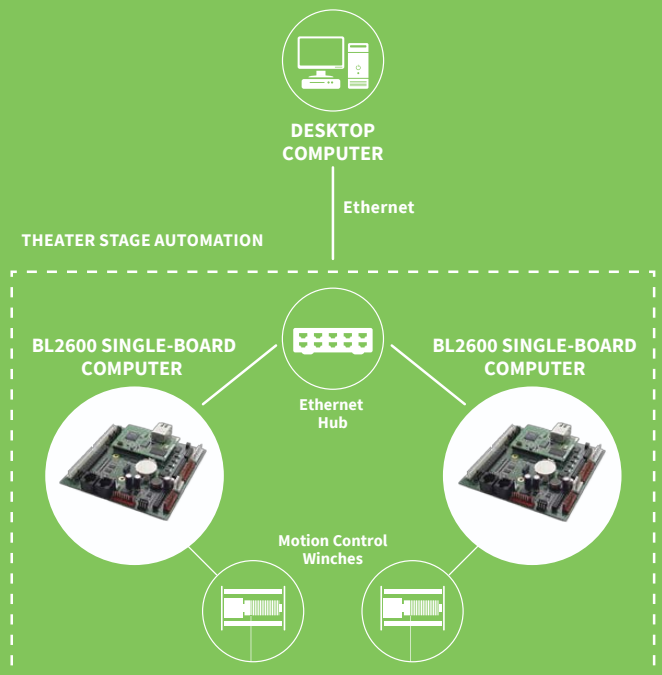


ConnectCore®
6 SBC



RabbitCore®
RCM3000
Series

APPLICATION EXAMPLE



SPECIFICATIONS		BL2600	BL2610
FEATURE			
MICROPROCESSOR	Rabbit® 3000 at 44 MHz		Rabbit® 3000 at 29 MHz
ETHERNET PORT	10/100Base-T, 3 LEDs		None
FLASH MEMORY	512K (standard)		512K (standard)
PROGRAM EXECUTION SRAM	512K		None
DATA SRAM	256K		512K
BACKUP BATTERY	Panasonic CR2477 or equivalent 3V lithium coin type, 950 mA-h standard, socket-mounted		
CONFIGURABLE I/O	16 individually software-configurable I/O channels may be configured as digital inputs $\pm 36\text{VDC}$, switching threshold 1.5V typical, or as sinking digital outputs up to 40V, 200 mA each		
DIGITAL INPUTS	8 inputs hardware-configurable pull-up or pull-down, $\pm 36\text{VDC}$, switching threshold 1.4V typical		
HIGH-CURRENT DIGITAL OUTPUTS	4 outputs individually software-configurable as sinking or sourcing, +40VDC, 2A max. per channel		
ANALOG INPUTS	Eight 11-bit res. channels, software-selectable ranges unipolar: 1, 2, 2.5, 5, 10, 20VDC; bipolar ± 1 , ± 2 , ± 5 , $\pm 10\text{VDC}$: 4 channels can be hardware-configured for 4–20 mA; 1 M Ω input impedance, up to 4,100 samples/s		
ANALOG OUTPUTS	Four 12-bit res. channels, buffered, 0–10VDC, $\pm 10\text{VDC}$, and 4–20 mA, update rate 12 kHz		
SERIAL PORTS	5 serial ports: • 1 RS-485 or 1 RS-232 • 2 RS-232 or 1 RS-232 (with CTS/RTS) • 1 clocked serial port multiplexed to 2 RS-422 SPI master ports • 1 serial port dedicated for programming/debug		
SERIAL RATE	Max. asynchronous rate = CLK/8, Max. synchronous rate = CLK/2		
CONNECTORS	• RJ-45 connectors: 1 Ethernet and 2 RabbitNet™ • Friction-lock connectors: 2 polarized 9-position terminals with 0.1" pitch; three 4-position power terminals with 0.156" pitch; two 20-position terminals with 0.1" pitch (2 $\times$ 20 IDC option); one 13-position terminal with 0.1" pitch (2 $\times$ 13 IDC option); one 10-position terminal with 0.1" pitch (2 $\times$ 7 IDC option) • Programming port: 2 $\times$ 5 IDC, 1.27 mm pitch (BL2600), 2 $\times$ 5 IDC, 2 mm pitch (BL2610)		
REAL-TIME CLOCK	Yes		
TIMERS	One 10-bit timer with 2 match registers		
POWER	Yes		
WATCHDOG/SUPERVISOR	9–36 VDC, 12W max.		
OPERATING TEMPERATURE	–40° C to +70° C (–40° C to +85° C without battery)		
HUMIDITY	5 to 95%, non-condensing		
BOARD SIZE	4.85" $\times$ 4.96" $\times$ 1.00" (123 mm $\times$ 126 mm $\times$ 25 mm)		

PART NUMBERS	DESCRIPTION
20-101-0889	BL2600. 10/100Base-T Ethernet
20-101-0891	BL2610. No Ethernet

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