



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

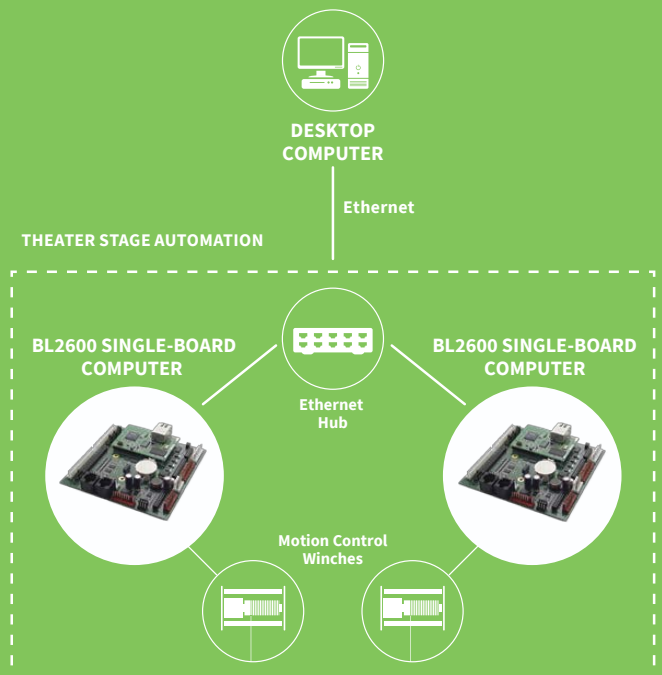


ConnectCore®
6 SBC



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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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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