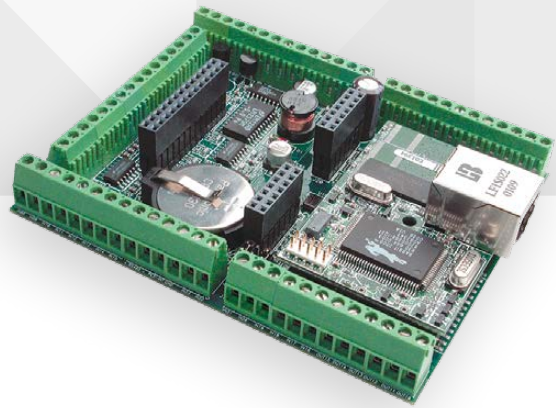




SINGLE-BOARD  
COMPUTER



# RABBIT<sup>®</sup> SBC BL2100 SERIES

A high-performance single-board computer designed for medium-scale industrial control and monitoring applications

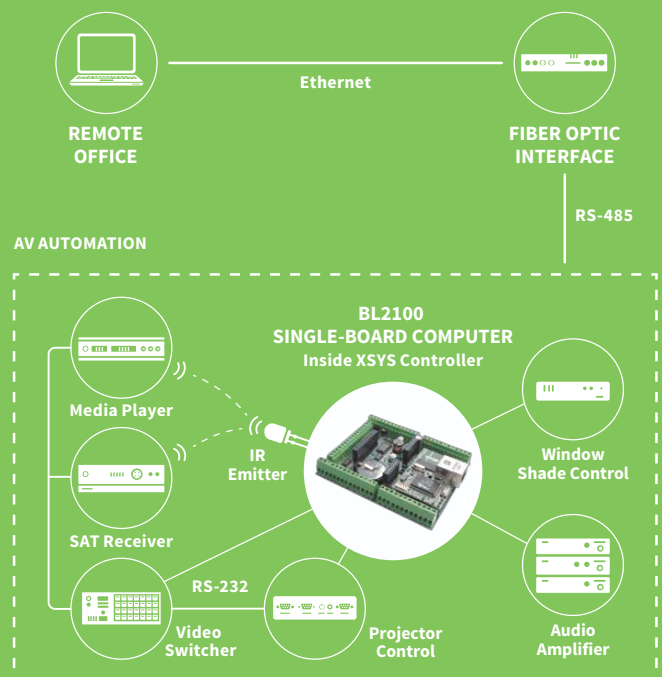
The BL2100 series is available in four flexible configurations, which feature 40 digital I/O, 3 RS-232/485 serial ports, and a battery-backup for the real-time clock and SRAM for protected data. In addition, the BL2100 and BL2120 models include 11 channels of 12-bit resolution A/D input and 4 channels of 12-bit D/A output. The BL2100's 16 digital outputs can sink/source up to 200 mA and are configurable in Dynamic C, an easy-to-use C environment.

An optional 7-key 122 x 32 graphic display is available as a cost-effective user interface (a panel-mount, water-resistant NEMA 4 version is also available). The BL2100 boards come standard with screw terminals which, can support 14 AWG wiring or other options such as IDC or friction lock headers.

## BENEFITS

- 40 sinking/sourcing digital I/O
- Up to 512K Flash for program and up to 512K SRAM for data
- 16 digital outputs which can sink/source 200 mA
- 11 A/D and 4 D/A with 12-bit resolution
- Up to 4 serial ports: two 3-wire (or one 5-wire) RS-232 and 1 RS-485
- Royalty-free TCP/IP stack

## APPLICATION EXAMPLE



## RELATED PRODUCTS



Dynamic C<sup>®</sup>



Keypad



Serial Flash



Digi Connect<sup>®</sup>  
WAN



Programming  
Cable

SPECIFICATIONS	BL2100	BL2110	BL2120	BL2130
FEATURES				
MICROPROCESSOR	Rabbit 2000 at 22.1 MHz			
ETHERNET PORT	10Base-T, RJ-45, link and activity LEDs		None	
FLASH	256K (standard)		256K	
SRAM	128K (standard)		128K	
BACKUP BATTERY	Socketed 3V lithium coin-type, 265 mA.h, supports RTC and SRAM			
KEYPAD/DISPLAY	See keypad/display option (below) and our "OP" products (for serial display options)			
DIGITAL INPUTS	24: protected to ± 36 VDC			
DIGITAL OUTPUTS	16: source/sink 200 mA each, 36VDC max.			
ANALOG INPUTS	11 at 1 MΩ, 12-bit resolution, ± 10 VDC, up to 4,100 samples/sec.	None	11 at 1 MΩ, 12-bit resolution, ± 10 VDC, up to 4,100 samples/sec.	None
ANALOG OUTPUTS	Four 12-bit resolution, 0-10 VDC*, update rate 12 kHz	None	Four 12-bit resolution, 0-10 VDC*, update rate 12 kHz	None
SERIAL PORTS	4 total: two 3-wire (or one 5-wire) RS-232, 1 RS-485, and one 5V CMOS-compatible (programming)			
SERIAL RATE	Max. burst rate = CLK/32; Max. sustained rate = burst/2			
CONNECTORS	Screw terminals support max. 14 AWG/1.5 mm2 (standard)			
REAL-TIME CLOCK	Yes			
TIMERS	Five 8-bit timers (four cascable from the first) and one 10-bit timer with 2 match registers			
WATCHDOG TIMER/SUPERVISOR	Yes			
POWER	9-36 VDC, 1.5W max. (without display), 3W max. (with display)			
OPERATING TEMPERATURE	-40° C to +70° C			
HUMIDITY	5-95%, non-condensing			
BOARD SIZE	4.14" x 3.41" x 0.93"; (105 mm x 87 mm x 24 mm)			

SPECIFICATIONS	Keypad/Display Option
FEATURES	
LCD PANEL	122 x 32 graphic LCD in two stacked sections (with programmable backlight); Relegendable keypad with 7-key/7-LED interface
LEDS	7 user-programmable: 1 red, 4 green, 2 yellow
OPERATING TEMPERATURE	0° C to 50° C
BOARD SIZE	3.00" x 2.6" x 0.75"; (76 mm x 66 mm x 19 mm)
ENCLOSURE SIZE	5.60" x 4.875" x 1.5"; (142 mm x 124 mm x 38 mm)

PART NUMBERS	DESCRIPTION
20-101-0461	BL2100 Ethernet, Analog
20-101-0462	BL2110. Ethernet, no Analog
20-101-0463	BL2120. Analog, no Ethernet
20-101-0464	BL2130. No Analog, no Ethernet
20-101-0502	Keypad/Display Option

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