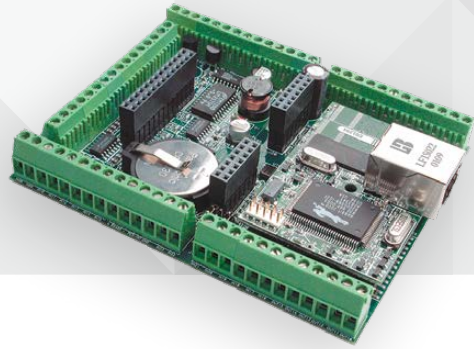




SINGLE-BOARD
COMPUTER



DIGI RABBIT SBC BL2100 SERIES

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

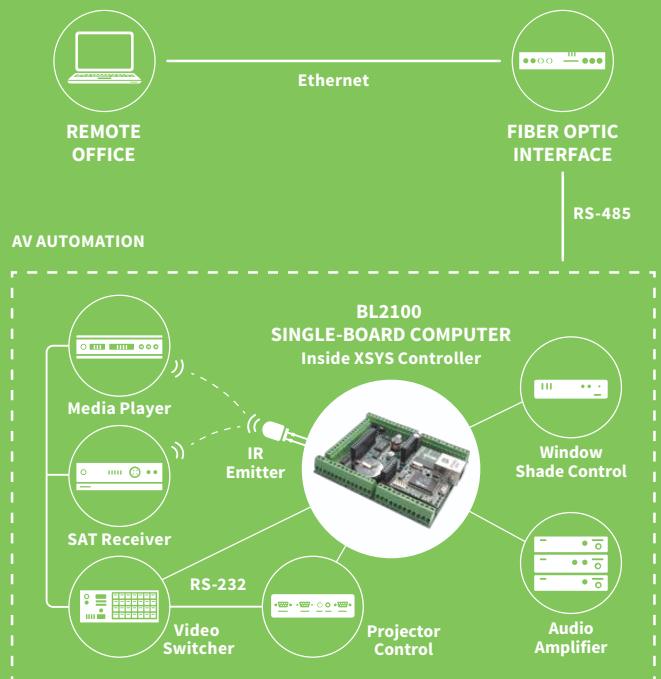
The BL2100 series is available in four flexible configurations, which feature 40 digital I/O, 3 RS-232/485 serial ports, and a battery-backup for the real-time clock and SRAM for protected data. In addition, the BL2100 and BL2120 models include 11 channels of 12-bit resolution A/D input and 4 channels 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.

FEATURES AND 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



SPECIFICATIONS	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	None	11 at 1 M Ω , 12-bit resolution, ± 10 VDC, up to 4,100 samples/sec.	None	
ANALOG OUTPUTS	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 mm ² (standard)			
REAL-TIME CLOCK	Yes			
TIMERS	Five 8-bit timers (four cascadable 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)			
PRODUCT WARRANTY	1 year			

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
20-101-0462	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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