



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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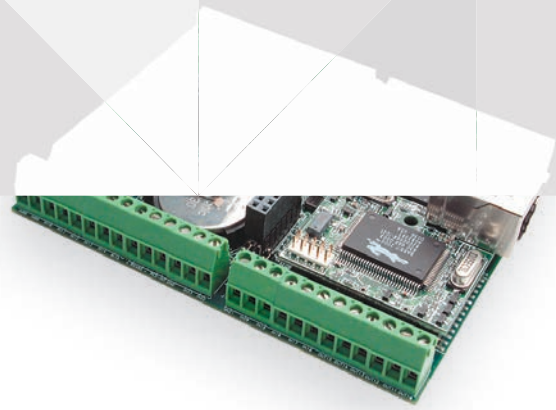
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SINGLE-BOARD
COMPUTER



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.

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

RELATED PRODUCTS



Dynamic C®



Keypad



Serial Flash

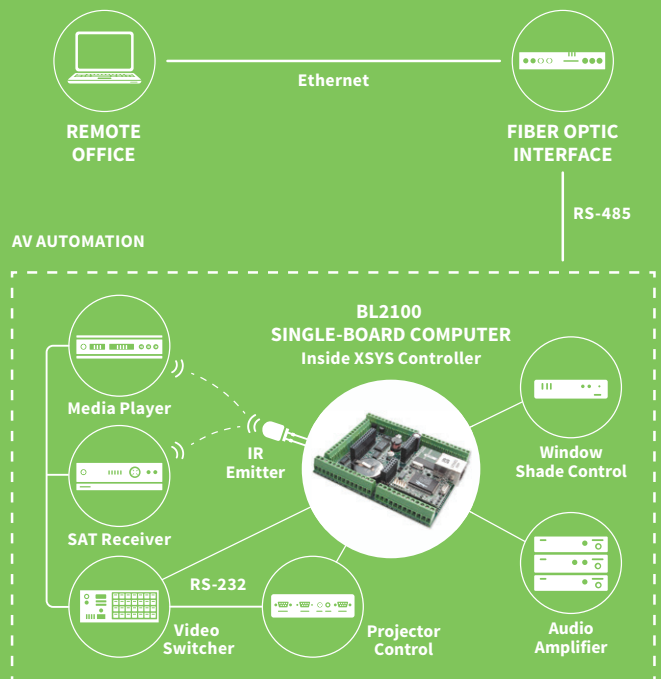


Digi Connect®
WAN



Programming
Cable

APPLICATION EXAMPLE



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 M Ω , 12-bit resolution, ± 10 VDC, up to 4,100 samples/sec.	None	11 at 1 M Ω , 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 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)			

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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