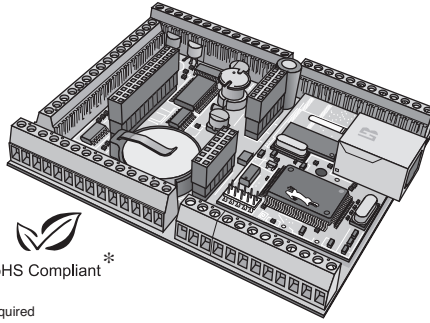


# RABBIT Single Board Computers



## BL2100 SMARTCAT

Designed for medium-scale control and monitoring applications, the Smartcat is a high-performance single-board computer that gives OEM designers Ethernet and keypad/display options all in one low-cost package. The Smartcat offers plenty of sinking/sourcing digital I/O with A/D and D/A, providing comprehensive integrated control capabilities in a compact 4.14" x 3.41" (105 x 87 mm) form factor. Ethernet models are ideal for remotely monitoring and supervising another programmable system or web-enabling new or existing products. The Ethernet interface is fully supported by software to enable network and Internet connectivity.



**Specifications:** \* 13-36 V DC supply voltage required

Feature	BL2100	BL2110	BL2120	BL2130
Microprocessor	Rabbit 2000™ @ 22.1MHz			
Ethernet Port	10Base-T, RJ-45, link and activity LEDs		None	
Flash	256K			
SRAM	128K			
Backup Battery	Socketed 3-V lithium coin-type, 265 mA*h, supports RTC and SRAM			
Keypad/Display	See keypad/display options and our "OP" products (for serial display options)			
Digital Inputs	24: protected to ± 36VDC			
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 12kHz	None	Four 12-bit resolution, 0-10 VDC*, update rate 12kHz	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			
Real-Time Clock	Yes			
Timers	Five 8-bit timers (four cascaded from the first) and one 10-bit timer with 2 match registers			
Watchdog/Supervisor	Yes			
Power	9-36VDC, 1.5 W max. (without display), 3 W max. (with display)			
Operating Temp	-40°C to +70°C			
Humidity	5-95%, non-condensing			
Board Size	4.14" x 3.41" x 0.93" (105 x 87 x 24mm)			

## BL2000 WILDCAT

The Wildcat gives OEM designers optional Ethernet connectivity in a low-cost, high-performance single-board computer. These compact boards are rich with the digital I/O, A/D, and D/A designers need for embedded control and monitoring applications, and the Wildcat's compact board size of 4.15" x 3.43" (105 x 87mm) allows for easy integration. Ethernet models are ideal for remotely monitoring and supervising another programmable system or web-enabling new or existing products.

### Tool Kit

MOUSER STOCK NO.	Description	Price Each
Mfr. Part No.		
* 812-101-0472	Wildcat Tool Kit (board not included)	200.00

### Product Only \* RoHS Compliant

* 812-20-101-0430	BL2000 Ethernet, Analog I/O	249.00
812-101-0556	BL2000 IDC Headers	274.00
812-101-0843	BL2000 IDC Headers, 512K SRAM	334.00
812-20-101-0555	BL2000 Friction Lock Connectors	274.00
812-101-0840	BL2000 Friction Lock Connectors, 512K SRAM	334.00
812-101-0842	BL2000 Friction Lock Connectors, 512K Flash	314.00
812-20-101-0554	BL2000 Bottom Mount Sockets	289.00
812-101-0835	BL2000 512K Flash	289.00
* 812-20-101-0455	BL2010 Ethernet, Analog inputs only, 2 extra dual purpose	199.00
* 812-101-0592	BL2010 IDC Headers	224.00
812-20-101-0591	BL2010 Friction Lock Connectors	224.00
* 812-20-101-0456	BL2020 No Ethernet, Analog I/O	209.00
812-101-0595	BL2020 IDC Headers	234.00
* 812-20-101-0594	BL2020 Friction Lock Connectors	234.00
812-101-0593	BL2020 Bottom Mount Connectors	249.00
* 812-20-101-0457	BL2030 No Ethernet, Analog inputs only, 2 extra dual	159.00
812-101-0817	BL2030 512K SRAM	219.00
812-101-0598	BL2030 IDC Headers	184.00
812-101-0597	BL2030 Friction Lock Connectors	184.00
812-101-0596	BL2030 Bottom Mount Connectors	199.00

### Programming/Development Tools

694-101-0987	Dynamic C Module	499.00
694-20-101-0580	RabbitLink Card	129.00
694-101-0589	Rabbit Cloning Board	89.00
* 694-20-151-0178	RS-232 to-USB Converter Cable	39.00

### Expansion Boards

* 694-20-101-0467	8 Meg Serial Flash	89.00
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### Mounting/Display

* 812-20-101-0431	Unibox Enclosure	15.00
812-151-0075	Light Pipes	6.00
812-20-101-0495	Baseplate	10.00

### Tool Kit

MOUSER STOCK NO.	Description	Price Each
Mfr. Part No.		
812-101-0482	SmartCat Tool Kit (board not included)	200.00

### Product Only

* 812-20-101-0461	BL2100 Analog and Ethernet	339.00
* 812-20-101-0568	BL2100 with 512K/512K	379.00
* 812-20-101-0567	BL2100 IDC Headers	364.00
812-101-0790	BL2100 IDC Headers, 512K Flash	404.00
812-20-101-0566	BL2100 Friction Lock Connectors	364.00
* 812-20-101-0818	BL2100 Friction Lock Connectors, 512K Flash	404.00
812-101-0565	BL2100 Bottom Mount Sockets	379.00
* 812-20-101-0573	BL2101 512K/512K	379.00
812-101-0697	BL2102 Bottom Mount Connectors	379.00
* 812-20-101-0462	BL2110 Ethernet, no Analog	249.00
812-101-0551	BL2110 IDC Headers	274.00
812-101-0550	BL2110 Friction Lock Connectors	274.00
* 812-101-0851	BL2110 Friction Lock Connectors, 512K/512K	314.00
812-101-0549	BL2110 Bottom Mount Sockets	289.00
* 812-20-101-0572	BL2110 512K Flash	289.00
* 812-20-101-0463	BL2120 Analog, no Ethernet	299.00
* 812-101-0571	BL2120 IDC Headers	324.00
812-101-0570	BL2120 Friction Lock Connectors	324.00
* 812-20-101-0569	BL2120 Bottom Mount Sockets	339.00
* 812-101-0464	BL2130 No Analog, no Ethernet	209.00
812-101-0548	BL2130 IDC Headers	234.00
812-101-0547	BL2130 Friction Lock Connectors	234.00
* 812-20-101-0546	BL2130 Bottom Mount Connectors	249.00

### Product Options and Accessories

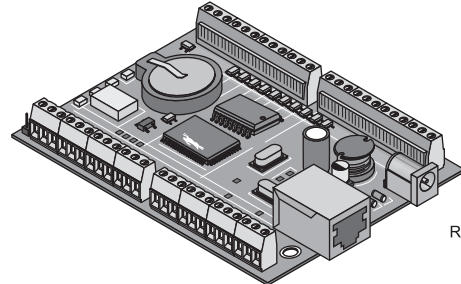
* 694-101-0589	Rabbit Cloning Board	89.00
694-20-101-0513	2mm Programming Cable	25.00

### Expansion Boards

* 694-20-101-0467	8 Meg Serial Flash	89.00
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### Mounting/Display

* 694-20-101-0465	Keypad/Display Unit	79.00
812-151-0127	Panel-Mount Keypad/Display Unit	40.00
812-20-101-0466	Keypad/Display Unit w/Case	99.00
694-540-0066	Keypad/Display Unit Cable 20'	15.00
* 812-20-101-0495	Baseplate	10.00



### Specifications:

Feature	BL2000	BL2010	BL2020	BL2030
Microprocessor	Rabbit 2000 at 22.1MHz			
Ethernet Port	10Base-T, RJ-45, link and activity LEDs		None	
Flash Memory	256K			
SRAM	128K			
Backup Battery	Socketed 3V lithium coin-type, 265mA-h, supports RTC and SRAM			
Keypad/Display	See our "OP" products for serial display options			
Digital Inputs	11: protected to ±36VDC			
Digital Outputs	8: sink 200mA, 2: sink 750mA, 40VDC max.			
Analog Inputs	Four 12-bit resolution 1MW, ±10VDC, up to 4,000 samples/sec.	Four 10-bit resolution 1MW, ±10VDC, up to 4,000 samples/sec.	Four 12-bit resolution 1MW, ±10 VDC, up to 4,000 samples/sec.	Four 10-bit resolution 1MW, ±10VDC, up to 4,000 samples/sec.
Analog Outputs	Two 12-bit resolution, 0-4VDC, update rate 12kHz	None	Two 12-bit resolution, 0-4VDC, update rate 12kHz	None
Dual Purpose Analog or Digital Inputs	5 at 12kW, 12-bit resolution, 0-48VDC	7 at 12kW, 10-bit resolution, 0-48VDC	5 at 12kW, 12-bit resolution, 0-48VDC	7 at 12kW, 10-bit resolution, 0-48VDC
Relay Outputs	SPDT, 1 A @ 30VDC, 0.3 A @ 120VAC Uses 1 digital output			
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. 14AWG/1.5mm2			
Real-Time Clock	Yes			
Timers	Five 8-bit timers (four cascaded from the first) and one 10-bit timer with 2 match registers			
Watchdog/Supervisor	Yes			
Power	9-40VDC or 24VAC ±10%, 1.5W max., power jack			
Operating Temp	-40°C to 70°C			
Humidity	5-95%, non-condensing			
Board Size	3.43" x 4.15" x 0.82" (87 x 105 x 21mm)			
Enclosure Size	4.9" x 5.6" x 1.1" (124 x 142 x 28mm)			
LED's	8 total: Power On, Microprocessor Error, Ethernet Link, Ethernet Activity, 4 output status		6 total: Power On, Microprocessor Error, 4 output status	