

RABBIT Single Board Computers



Specifications: * 13-36 V DC supply voltage required

Feature	BL2100 SMARTCAT				BL2000 WILDCAT				BL2600 WOLF	
	BL2100	BL2110	BL2120	BL2130	BL2000	BL2010	BL2020	BL2030	BL2600	BL2610
Microprocessor	Rabbit 2000™ @ 22.1MHz				Rabbit 2000™ @ 22.1MHz				Rabbit 3000™ at 44.2MHz	
Ethernet Port/None	10Base-T, RJ-45, link and activity LEDs		None		10Base-T, RJ-45, link and activity LEDs		None		10/100Base-T, 3 LEDs	
Flash	256K				512K (standard)				512K (standard)	
SRAM	128K				512K Program Execution, 256K Data				512K (standard)	
Backup Battery	Socketed 3-V lithium coin-type, 265 mA·h, supports RTC and SRAM								Panasonic CR2477 or equivalent 3V lithium coin type, 950mAh, socket mounted	
Keypad/Display	See keypad/display options and our "OP" products (for serial display options)				See our "OP" products for serial display options				-	
Digital Inputs	24: protected to ± 36VDC				11: protected to ±36VDC				16: Hardware-configurable pull-up or pull-down, ±36VDC, switching threshold 1.4V typ.	
Digital Outputs	16: source/sink 200 mA each, 36VDC max.				8: sink 200mA, 2: sink 750mA, 40VDC 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	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 1 MW, ±10 VDC, up to 4,000 samples/sec.	Four 10-bit resolution 1MW, ±10VDC, up to 4,000 samples/sec.	8 channels with 11-bit resolution, software selectable ranges Unipolar: 1, 2, 2.5, 5, 10, 20VDC; Bipolar: ±1, ±2, ±5, ±10VDC; Four of the eight channels may be hardware-configured for 4-20mA, 12 kHz update rate	
Analog Outputs	Four 12-bit resolution, 0-10 VDC*, update rate 12kHz	None	Four 12-bit resolution, 0-10 VDC*, update rate 12kHz	None	Two 12-bit resolution, 0-4VDC, update rate 12kHz	None	Two 12-bit resolution, 0-4VDC, update rate 12kHz	None	4 channels, 12-bit resolution, buffered (0-10 V DC, ± 10VDC), 4-20mA, 12kHz update rate	
Analog or Digital Inputs	None				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	None				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)				-				Up to 5 serial ports: • 1 RS-485 or 1 RS-232 • 2 RS-232 or one RS-232 (with CTS/RTS) • 1 clocked serial port multiplexed to 2 RS-422 SP1 master ports • 1 CMOS compatible serial port for programming/debug	
Serial Rate	Max. burst rate = CLK/32 Max. sustained rate = burst/2				-				-	
Real-Time Clock	-				Yes				-	
Timers	Five 8-bit timers (four cascadable from the first) and one 10-bit timer with 2 match registers				-				-	
Watchdog/Supervisor	-				Yes				-	
Power	9-36VDC, 1.5W max. (w/o display), 3W max. (w/ display)				9-40VDC or 24VAC ±10%, 1.5W max., power jack				-	
Board Size	4.14" x 3.41" x 0.93" (105 x 87 x 24mm)				3.43" x 4.15" x 0.82" (87 x 105 x 21mm)				4.85" x 4.96" x 1.00" (123 x 126 x 25mm)	

BL2100 SMARTCAT

*: RoHS Compliant

MOUSER STOCK NO.	Description	Price Each
Mfr. Mfr. Part No.		
* 812-20-101-0461	BL2100 Analog and Ethernet	
812-20-101-0568	BL2100 with 512K/512K	
* 812-20-101-0566	BL2100 Friction Lock Connectors	
* 812-20-101-0462	BL2110 Ethernet, no Analog	
812-20-101-0572	BL2110 512K Flash	
812-20-101-0463	BL2120 Analog, no Ethernet	
* 812-101-0570	BL2120 Friction Lock Connectors	
* 812-20-101-0569	BL2120 Bottom Mount Sockets	
812-20-101-0546	BL2130 Bottom Mount Connectors	
Product Options & Accessories, Expansion Boards, Mounting / Display		
* 694-20-101-0513	2mm Programming Cable	
* 694-20-101-0467	8 Meg Serial Flash	
* 694-20-101-0465	Keypad/Display Unit	
812-151-0127	Panel-Mount Keypad/Display Unit	
812-20-101-0466	Keypad/Display Unit w/Case	
694-540-0066	Keypad/Display Unit Cable 20'	
* 812-20-101-0495	Baseplate	

BL2600 WOLF BOARD

MOUSER STOCK NO.	Description	Price Each
Mfr. Mfr. Part No.		
812-20-101-0889	BL2600 Board w/ 10/100Base-T Ethernet - RoHS	
812-20-101-0891	BL2610 Board w/o 10/100Base-T Ethernet - RoHS	
Product Accessories		
812-20-101-0879	RN1600 RabbitNet Keypad/Dsply Interface Card-RoHS	
812-20-101-0688	RN1300 RabbitNet D/A Expansion Card	
812-20-101-0616	RN1200 RabbitNet Digital I/O Expansion Card	
812-20-101-0612	RN1100 RabbitNet Digital I/O Expansion Card	
694-20-101-0468	SF1000 4MB Serial Flash Expansion - RoHS	
694-20-101-0467	SF1000 8MB Serial Flash Expansion	
694-20-101-0580	RabbitLink Card for Remote Debug via Ethernet/Internet - RoHS	
694-20-151-0178	RS-232-to-USB Converter Cable for USB only PCs	
694-20-101-0542	1.27mm Connector for 10/100Base-T Option	
812-20-101-0581	Connectivity Kit	

BL2000 WILDCAT

*: RoHS Compliant

MOUSER STOCK NO.	Description	Price Each
Mfr. Mfr. Part No.		
* 812-101-0472	Wildcat Tool Kit (board not included)	
* 812-20-101-0430	BL2000 Ethernet, Analog I/O	
* 812-20-101-0555	BL2000 Friction Lock Connectors	
* 812-20-101-0455	BL2010 Ethernet, Analog inputs only, 2 extra dual purpose	
812-20-101-0591	BL2010 Friction Lock Connectors	
* 812-20-101-0456	BL2020 No Ethernet, Analog I/O	
812-20-101-0594	BL2020 Friction Lock Connectors	
* 812-20-101-0457	BL2030 No Ethernet, Analog inputs only, 2 extra dual	
Product Options & Accessories, Expansion Boards, Mounting / Display		
694-20-101-0580	RabbitLink Card	
694-20-151-0178	RS-232 to-USB Converter Cable	
* 694-20-101-0467	8 Meg Serial Flash	
* 812-20-101-0431	Unibox Enclosure	
* 812-151-0075	Light Pipes	
812-20-101-0495	Baseplate	

SR9000 SMART START SYSTEM

MOUSER STOCK NO.	Description	Price Each
Mfr. Mfr. Part No.		
Smart Start Backplane		
812-20-101-0512	SR9010 7-slot - RoHS	
812-20-101-0487	SR9050 3-slot	
Keyboard/Display Options		
694-20-101-0601	Keypad/Display Unit, 3.3 Volt, No Case - RoHS	
694-20-101-0465	Keypad/Display Unit, 5 Volt, No Case	
Product Options and Accessories		
812-101-0504	Cable and Mounting Hardware	
812-540-0069	Keypad/Display Unit Cable 5"	
812-151-0127	Connector Adapter Board	
Smart Start CPU Card		
812-20-101-0486	SR9150 Ethernet - RoHS	
812-20-101-0738	SR9150 Ethernet, 512K SRAM - RoHS	
812-20-101-0506	SR9160	
Programming/Development Tools		
694-20-101-0580	RabbitLink Card	
Smart Start Digital I/O Cards		
812-20-101-0389	16 inputs and 8 outputs, sinking	
812-20-101-0437	16 inputs and 8 outputs, sourcing - RoHS	
812-20-101-0390	8 inputs and 16 outputs, sinking - RoHS	
Smart Start A/D Cards		
812-20-101-0392	Eleven 12-bit analog inputs (0-10V)	
Smart Start D/A Cards		
812-20-101-0393	Eight 12-bit analog outputs (0-10V)	
Smart Start Field Wiring Terminals		
812-20-101-0515	Screw-type (A/D, D/A) - RoHS	
812-20-101-0512	Screw-type (I/O, Relay 8)	