

Single Board Computers

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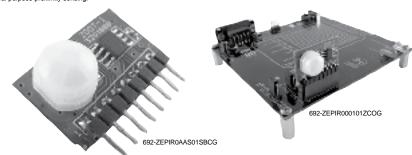
$Z \cap Q^\circ$ EPIR MOTION DETECTION ZDOTS SINGLE BOARD COMPUTER (SBC)

(SBC) is a complete solution for motion detection. ePIR Motion Detection Zdots SBC includes a passive infrared (PIR) sensor and Fresnel lens and provides a significant performance improvement over today's digital solutions. Using PIR sensor technology, it combines the unique features of the Z8 Encorel XP® MCU, including Zilog's Sigma-Delta TechnologyTM, with powerful, new motion detection algorithms, providing a dramatic improvement in both sensitivity and stability.

The ePIR Motion Detection Zdots Single Board Computer is a great time-to-market embedded solution for any device that needs motion detection. It is an easy way to add energy management capability to various applications including vending machines, display systems, appliances, lighting control, access control and general purpose proximity sensing.

Advantages:

- Fast validation of prototypes.
 Enables fast time-to-market through quick development.
 Drop-in-ready solution for production.
- Reduced overall BOM costs.
- Zdots! Single Board Computing.
- Zdots! Single Board Computers enable rapid embedded application development shrinks time to market, slashes BOM costs, and seamlessly drops into production systems.



MOUSER	Zilog Description		Price Each	
STOCK NO.	Part No.	Возоприон	1	100
692-ZEPIR0AAS01SBCG 692-ZEPIR000101ZCOG				-



BL2500 COYOTE

Gives OEM designers extremely low-cost embedded control for high-volume applications such as product control, factory equipment control, access control, HVAC, and vending machines. Two standard models—one with Ethernet, one without—feature the Rabbit 3000™ microprocessor at 29.4 MHz, with 256K Flash and 128K SRAM

Complete Kits For New Users

MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		
812—101-0577 Ju a B D cc		Jump start your evaluation and design efforts with a complete development kit, which includes BL2500 Coyote, demonstration board, Dynamic C development system and complete documentation CD-ROM, serial cable for programming and debugging.	



MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		
*812-	-20-101-0575	BL2500 10Base-T Ethernet	
812-	-20-101-0599	BL2500 with 512K/512K	
*812-	-20-101-0602	BL2500 with 10/100, 512K/512K, 44.2clk †	
*812-	-20-101-0576	BL2510 No Ethernet	

Expansion Boards

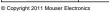
* RoHS Compliant

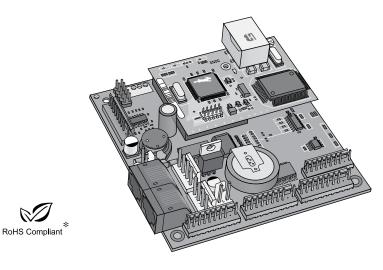
MOUSER STOCK NO. Mfr. Mfr. Part No.		Description	Price Each
*812-	-20-101-0616	RabbitNet A/D Expansion Card	
*812-	-20-101-0612	RabbitNet Digital I/O Expansion Card	
*694-	-20-101-0467	7 8 Meg Serial Flash	
*812-	-20-101-0879	RN1600 RabbitNet Keypad/Display Interface Card	

Programming/Development Tools

* RoHS Compliant

MOUSER STOCK NO.		Description	Price Each
Mfr.	Mfr. Part No.		Lacii
* 694	-20-101-0580	RabbitLink Card	
* 694-	-20-151-0178	RS-232-to-USB Converter Cable	
538-	-63811-1000	Crimp Tool	
* 694	-20-101-0542	2 1.27 mm Programming Cable	
* 812-	-20-101-0581	1 Connectivity Kit	
812-	-101-0887	RN1600 RabbitNet Expansion Kit	





Specifications:

Feature	BL2500	BL2510	
Microprocessor	Rabbit 3000™ at 29.4 MHz		
Ethernet Port	10Base-T, RJ-45 N/A		
Flash Memory	256K (standard)		
SRAM	128K (standard)		
LED's	4-User-programmable		
Digital Inputs	16: 15 protected to ±36 VDC, 1 protected to +5 –36V; threshold is 1.5 V nom.		
Digital Outputs	8, sink up to 200 mA each, 36 V DC max. standoff voltage		
Analog Inputs	One 10-bit resolution, 8-bit accuracy, input range 0.1–3.1 V, 10 samples/s		
Analog Outputs	Two 9-bit PWM, 0.1–3.1 VDC, 17ms settling time		
Serial Ports	6 serial ports: 1 RS-485, 2 RS-232 or one RS-232 (with CTS/RTS), 1 CMOS level		
	asynchronous or clocked serial port, 1 expansion serial port multiplexed to two RS-422		
	clocked SPI ports, 1 CMOS compatible serial port for programming/debug		
Serial Rate	Max. async = CLK/8, Max. sync = CLK/2		
Real-Time Clock	Yes		
Timers	Ten 8-bit timers (6 cascadable from the first) and one 10-bit timer with 2 match registers		
Watchdog/Supervisor	Yes		
Power	8 – 40 V DC 1 W typical w/ no load	8 – 40 V DC 0.8 W typical w/ no load	
Backup Battery	3 V lithium coin-type, 1000 mA•h, supports RTC & SRAM		
Operating Temperature	-40° to +70°C		
Humidity	5 – 95%, noncondensing		
Connectors	5 polarized 9-pin Molex® type terminals with 0.1" pitch, Two 4-pin 0.156" pitch Molex		
	type, two 0.156" pitch 2-pin Molex type, two RJ-45, one 0.1" pitch 2x5 IDC, one 2 mm		
	pitch 2x5 IDC programming port		
Board Size	3.95" x 3.95" x 1.16" (100 x 100 x 29 mm)	3.95" x 3.95" x 0.80" (100 x 100 x 20 mm)	



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