

Single Board Computers

Products may be RoHS compliant. Check mouser.com for RoHS status.



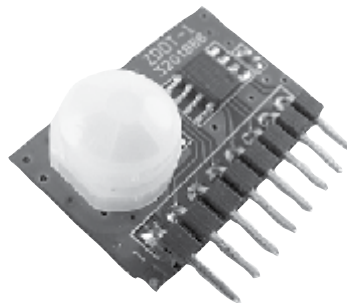
EPIR MOTION DETECTION ZDOTS SINGLE BOARD COMPUTER (SBC)

(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 Encore! XP® MCU, including Zilog's Sigma-Delta Technology™, 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.



692-ZEPIR0AAS01SBCG

MOUSER STOCK NO.	Zilog Part No.	Description	Price Each	
			1	100
692-ZEPIR0AAS01SBCG	ZEPIR0AAS01SBCG	Zdots® ePIR Motion Detection Single Board Computer	6.50	6.00

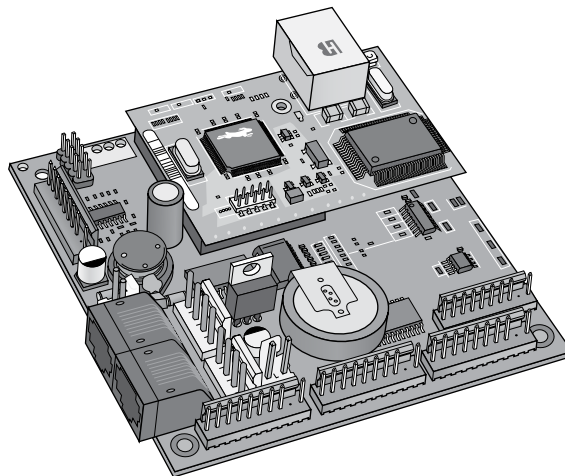


BL2500 COYOTE

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
812—101-0577	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.	285.00



RoHS Compliant

Product Only * RoHS Compliant † Requires 1.27mm programming cable

MOUSER STOCK NO.	Description	Price Each
* 812—20-101-0575	BL2500 10Base-T Ethernet	189.00
812—20-101-0599	BL2500 with 512K/512K	209.00
* 812—20-101-0602	BL2500 with 10/100, 512K/512K, 44.2clk †	239.00
* 812—20-101-0576	BL2510 No Ethernet	149.00

Specifications:

Tyco Part No.	Fig.	Coil Voltage
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)

Expansion Boards

* RoHS Compliant

MOUSER STOCK NO.	Description	Price Each
* 812—20-101-0616	RabbitNet A/D Expansion Card	89.00
* 812—20-101-0612	RabbitNet Digital I/O Expansion Card	89.00
* 694—20-101-0467	8 Meg Serial Flash	89.00
* 812—20-101-0879	RN1600 RabbitNet Keypad/Display Interface Card	69.00

Programming/Development Tools

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MOUSER STOCK NO.	Description	Price Each
* 694—20-101-0580	RabbitLink Card	129.00
* 694—20-151-0178	RS-232-to-USB Converter Cable	39.00
538—63811-1000	Crimp Tool	49.00
* 694—20-101-0542	1.27 mm Programming Cable	25.00
* 812—20-101-0581	Connectivity Kit	18.00
812—101-0887	RN1600 RabbitNet Expansion Kit	149.00