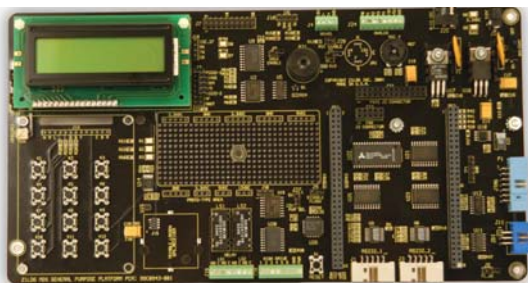




ZiLOG's General-Purpose MDS Application Board



OVERVIEW

- Supports the eZ80Acclaim!™ eZ80F91, Z8 Encore!® 8K and 64K Series, and Z8 Encore! XP™ 4K Series microcontrollers
- Footprints for RF, GPS, and Digital Compass
- The perfect foundation for your innovative application development ideas

ZiLOG's General-Purpose Modular Development System (MDS) Application Board gives you the peripherals you need to design your innovative applications using any ZiLOG MDS-compatible development board. Our MDS application board provides several PCB footprints and connectors that enable you to add functions as needed in your designs.

Built-in terminal blocks for many I/O connections are included, providing easy access to your external hardware. The MDS application board provides a number of RS232 options that are selectable by software control or jumper settings. The kit includes an MDS general-purpose application board, CD-ROM, and supporting documentation. ZiLOG's MDS development boards are sold as stand-alone development kits to work along with existing eZ80Acclaim!™, Z8 Encore!®, and Z8 Encore! XP™ development tools. The MDS general purpose board speeds your time-to-market by providing you with the most frequently used features needed for 8-bit MCU application development.

FEATURES

- Supports the eZ80Acclaim!™ eZ80F91, Z8 Encore!® 8K and 64K Series, and Z8 Encore! XP™ 4K Series microcontrollers
- 2 x 16 character LCD display
- 3 x 4 keypad matrix
- 512KB fast SRAM
- Both 5 and 9-12 VDC input jacks
- RS485 interface/screw terminal block I/O: +12VDC, D+, D-, GND (board power can be provided using this 12VDC input)
- Terminal block inputs for some ADC channels on the Z8 Encore! MCU family
- Six high-drive outputs with terminal blocks. Jumper-selectable 5 or 12VDC supply
- Two relays with terminal block
- Plug-in for Trimble Lasso SQ GPS module (GPS module not included)
- Plug-in for Maxstream (900MHz or 2.4 GHz) data module (RF module not included)
- Buzzer
- I²C temperature sensor
- I²C 4-pin I/O connector
- External 8 bit data I/O connector. Can interface to large graphic LCD displays
- Large bread board area
- Two 10-pin RS232 ports
- Pot control for one ADC channel
- Footprint for Dinsmore 1490 Digital Compass
- Software- or jumper-controllable RS232 routing
- Footprints for additional Flash memory devices
- 4-layer PCB
- Battery option
- JTAG and Zilog's ZDI debug interface
- Measures 5 ¼ inches by 9 ¾ inches



ZiLOG's General-Purpose MDS Application Board

External Memory	External 8-Bit Bus	2 x 16 LCD Display
Two RS-232 4-wire	MDS- Compatible Development Board	3 x 4 Keypad
Optional GPS, RF Transceiver, Digital Compass		ADC Terminal Block Inputs
	I ² C Bus Expanders	Buzzer
Relays, Temp Sensor, High-Drive Outputs		Power Supply

Application Ideas

- Internet 'Enabled' peripherals with eZ80F91 module
- RS485 master or slave mode system
- IrDA to RS232 or RS485/RF bridge
- Mini-computer with RF link
- Send GPS data to RS232, RS485, IrDA or RF
- Drive high current lamps, LEDS, motors
- Agriculture feed monitoring
- Weather station
- Robotics control
- Remote monitoring

Ordering Information

ZGENPRP0100MDS ZiLOG General-Purpose MDS Application Board

Supported Development Kits

EZ80F910200ZCO	eZ80F91 Development Kit
Z8F64200100KIT	Z8 Encore!® 64K Series Development Kit
Z8F08200100KIT	Z8 Encore!® 8K Series Development Kit
Z8F04A28100KIT	Z8 Encore! XP™ 4K Series Development Kit

Order your ZiLOG Development Kits at <http://www.zilog.com> to get your applications to market in record time.

eZ80Acclaim!, Z8 Encore! and Z8 Encore! XP are trademarks or registered trademarks of ZiLOG, Inc. in the United States and in other countries. FL006501-0504

