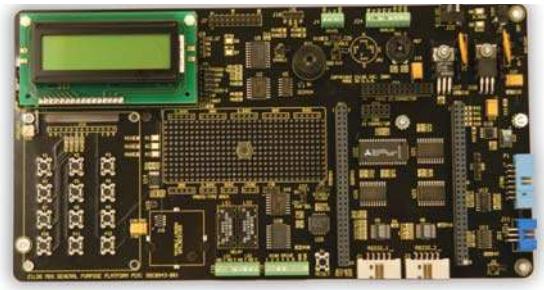
ZiLOG's General-Purpose MDS Application Board



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 Lasson SQ GPS module (GPS module not included)
- Plug-in for Maxstream (900MHz or 2.4 GHz) data module (RF module not included)
- Buzzer
- I^2C temperature sensor
- I^2C 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

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

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.

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