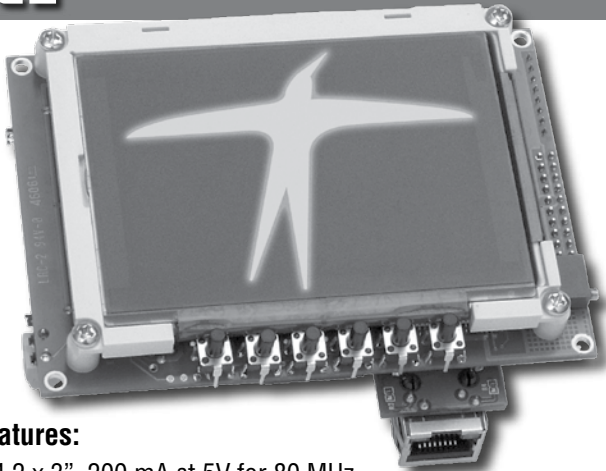




Features:

- 4.2 x 3", 200 mA at 5V for 80 MHz
- 40 or 80 MHz, 16-bit CPU, program in C/C++
- 256 KW 16-bit Flash, 256 KW 16-bit SRAM, 512 bytes EE
- 192x128 (71x54 mm) Graphic LCD and 6 Keys
- 10+ I/Os, Real-time clock, 2 serial ports, PWM, counters
- 16 ch 24-bit ADC (LTC2448), 4 ch 16-bit ADC (AD7655)
- 8 ch. 16-bit DAC (LTC2600), 2 ch 12-bit DAC (DAC7612)
- Hardware TCP/IP stack for 100M Base-T Ethernet
- CompactFlash card with FAT file system support
- 7 Solenoid drivers, and 1 Reed Relay

Summary

The EL™ is a high performance, low cost, C/C++ programmable controller based on a 40/80MHz 16-bit CPU. It is intended for networking industrial process control, high-speed data acquisition, and especially ideal for OEM applications with basic user-interface requirements.

User Interface

A low power graphic LCD with 192x128 pixels can be installed. The LCD has 71x54 mm viewing area with ultra bright white backlighting. Six mechanical push bottoms can be installed along the side of the LCD. An integrated font library makes text display equally easy. Easy user interface software is available. The EL represents an ideal low cost, panel-mount user interface for many OEM applications.

Ethernet/Connectivity

An Fast Ethernet Module can be installed to provide 100M Base-T network connectivity. This Ethernet module has a hardware LSI TCP/IP stack. It implements TCP/IP, UDP, ICMP and ARP in hardware, supporting internet protocol DLC and MAC. It has 16KB internal transmit and receiving buffer. The host can access the buffer via high speed DMA transfers. The hardware Ethernet module releases internet connectivity and protocol processing from the host processor, which represents a huge improvement over software-based TCP/IP stacks. The resulting system can easily handle transmissions in the 100KB/s+ range in real world applications with 4 independent stack connections simultaneously. Software is available for connecting to Windows Internet Explorer.

Other Features

With a precision 2.5V reference, a sigma-delta 24-bit ADC (LTC2448, 5 KHz, 0-1.25V) offers 8 ch. differential or 16 ch. single-

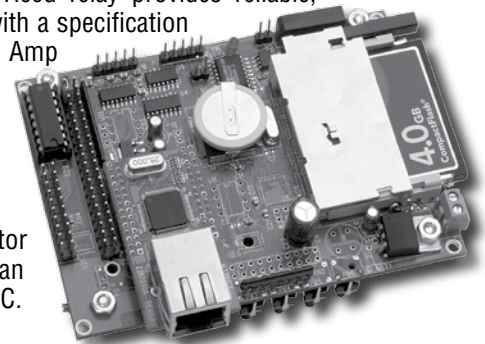
ended input channels. A 16-bit parallel ADC (AD7655, 0-5V) supports ultra high-speed (1 MHz conversion rate) analog signal acquisition. The AD7655 can simultaneous sample on two channels of a total of 4 analog inputs. A 16-bit DAC (LTC2600) provides 8 analog output voltages (0-5V). Two channels of 12-bit DAC (DAC7612) can output 0-4.095V analog voltage.

The EL supports up to 2 GB mass storage CompactFlash cards with Windows compatible FAT file system support, allowing user easily transfer large amounts of data to or from a PC.

The EL features 16-bit ACTF Flash (256 KW) and battery-backed SRAM (256 KW). It also includes 3 timers, PWMs, PIOs, 512-byte serial EEPROM, two RS232 ports, 3 timer/counters, and a watchdog timer. A real time clock (DS1337, Dallas) is available.

Seven high voltage sink drivers are installed, capable of sinking 350 mA at 50V per line, and they can directly drive solenoids, relays, or lights. A mechanical Reed relay provides reliable, fast switching contacts with a specification of 200 V, maximum 1 Amp carry current, 0.5 Amp switching, and 100 million times operation.

The EL has on-board optional switching regulator with power-off mode. It can be powered with 9-24V DC.



Ordering Information

EL \$169/\$84/\$69/\$54 Qty 1/50/100/1K+

Includes 40 MHz CPU, 64KW SRAM, PIOs, 2 RS232, 3 timers, watchdog, 512 bytes EE, 256KW flash, solenoid drivers

NOT including add-on options. OEM option discounts available.

Add-on Options:

1) SRAM 256KW.....	\$20
2) Real-time clock (RTC) and battery.....	\$20
3) CompactFlash interface	\$20
4) 100 BaseT hardware TCP/IP Ethernet	\$30
5) 16 ch. 24-bit ADC (LTC2448).....	\$40
6) 4 ch. 16-bit ADC, 1MHz (AD7655).....	\$40
7) 8 ch. 16-bit DAC (LTC2600).....	\$40
8) 2 ch. 12-bit DAC (DAC7612).....	\$20
9) 192x128 graphic LCD+6 keys.....	\$60
10) Reed Relay.....	\$10
11) Switching regulator	\$20
12) RS485 driver for SER1	\$10
13) 80 MHz upgrade, 20ns SRAM 256KW.....	\$50

Typical Order Example:

EL™, CompactFlash, LCD

EL +3+9= \$169+20+60 = \$249



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