

Mosaic Browser

Spring 2003

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- Mix and match Mosaic's new QED Wildcards™ to create your own custom system

The QVGA Controller™ - A High Level of Software / Hardware Integration



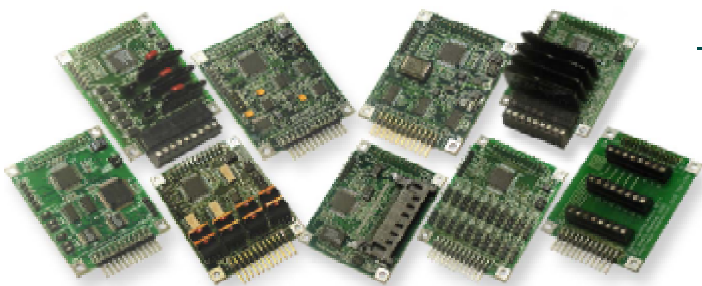
Mosaic Industries has released **The QVGA Controller™**, a C-programmable embedded computer with a touchscreen controlled graphical user interface on a quarter VGA display. The controller comes complete with a high contrast 320x240 pixel electroluminescent (EL) or LCD graphics display, a high-resolution analog touchscreen, and a built-in graphical user interface (GUI) software toolkit. **The GUI Toolkit** provides an easy way to design and implement a complete graphical interface to monitor and control an instrument. Built-in software responds to on-screen menus, buttons and controls by executing programmer-defined functions.

The QVGA Controller commands eight 12-bit analog input channels, eight 8-bit analog inputs, eight 8-bit D/A lines, 24 digital I/O, 4 high current drivers, and two RS232/485 ports. Other features include a real-time multitasking operating system, hundreds of pre-coded device drivers, 384K Flash and 256K RAM.

Up to **8 Wildcard I/O modules** can be plugged in to add dozens more digital and high-resolution analog signals.

Call 510-790-1255 to have your custom system created for you.

QED Wildcards™: Small and Mighty



Does your application need a unique combination of specialized I/O?

Wildcards are small (2.5"x2.0"), stackable I/O expansion boards, including digital I/O, A/D, D/A, and AC and DC relays – that you can mix and match to create your own custom system.

Wildcards stack directly on the **QVGA Board** providing unprecedented I/O density. This modular design, with careful consideration given to manufacturing and maintenance requirements, is well suited to both small and large instrumentation and automation projects, where cost and physical size are critical.

Data Acquisition and Analog I/O

For data acquisition, the **24/7 Data Acquisition Wildcard** provides precision measurement (24-bit resolution) with programmable gain and filtering, and the **Analog I/O Wildcard** features fast 16-bit resolution measurement. The **Analog I/O Wildcard** also supplies eight channels of 12-bit resolution analog voltage outputs for controlling analog devices and actuators.

Digital I/O and Relays

Need lots of digital I/O points? The **Digital I/O Wildcard** provides twenty channels of user-configurable I/O. The optically isolated **Power I/O Wildcard** or the **DC Relay Wildcard** can control high-current DC loads, and AC line operated devices are easily managed using the **AC Relay Wildcard**.

Additional Serial Ports

The **UART Wildcard** delivers two buffered full-duplex serial ports using RS232, RS422, or RS485 protocols.

Program Memory and Mass Storage

A **Compact Flash Wildcard** provides removable mass storage of 16 or 64 megabytes and a DOS/Windows compatible file system for easy data exchange with your PC.

Available on Legacy QED Products

The Wildcard Carrier Board stacks on any QED-4 Board or Panel-Touch Controller, and hosts up to eight Wildcards. The Wildcard Carrier Board itself provides additional memory of up to 512K RAM and 512K Flash for code, data and graphics.

All Wildcards include precoded device drivers giving you full high level access to their functions whether you use the C or Forth programming languages.

