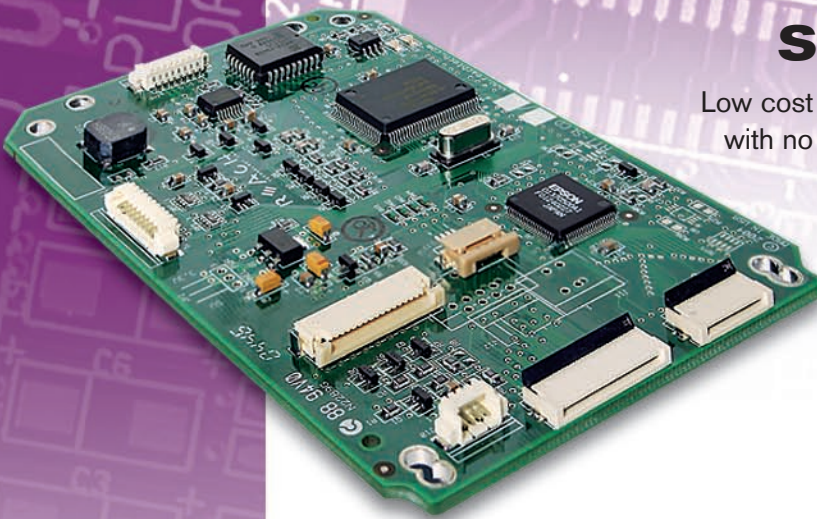


SLCD Controller Board

Low cost LCD Controller for embedded systems using QVGA with no special OS or Library needed on the host processor



Features include:

- Drives both passive (STN) and active (TFT) displays
- Controls either color or monochrome LCDs
- Landscape or Portrait mode
- Ideal for constrained size applications: 3" x 4.5", 0.3"
- Supports both 3.3V and 5V displays
- RS232 or CMOS level interface at up to 115Kbaud
- On-board flash memory for storing bitmaps and macros
- Backlight/contrast control
- OEM customization available

Until now, the only way to provide a modern graphical user interface (GUI) was to use an embedded PC with a bulky and complex operating system. The REACH Technology SLCD changes all that. Now, even an 8-bit processor can include a color touch interface, integrated in weeks, not months!

Containing a powerful 16-bit microprocessor, the REACH SLCD also provides flash memory, an LCD controller chip, beeper, and optional touch screen / button interface. The microprocessor code contains a graphics library, text fonts, pre-defined bitmaps, and a command interpreter. A standard serial port is used to interface to the host system. User-defined bitmaps and macros are stored into the flash using the serial port and can be updated in-system.



The SLCD has connectors to support multiple panels from different vendors. By using the SLCD instead of adding a discrete LCD controller to an embedded system, the end product can quickly incorporate advances in panel technology. Displays and display controllers change constantly, and the SLCD tracks those changes, providing a consistent software interface to the host processor.

The SLCD is simple to use, whether you utilize the supplied bitmaps, or design your own. Download the images into the board's flash memory and send ASCII commands to display them, draw text, define pushbuttons, and create charts. Complete sample programs are provided.

Customers tell us they have had something useful up and running in one or two days!

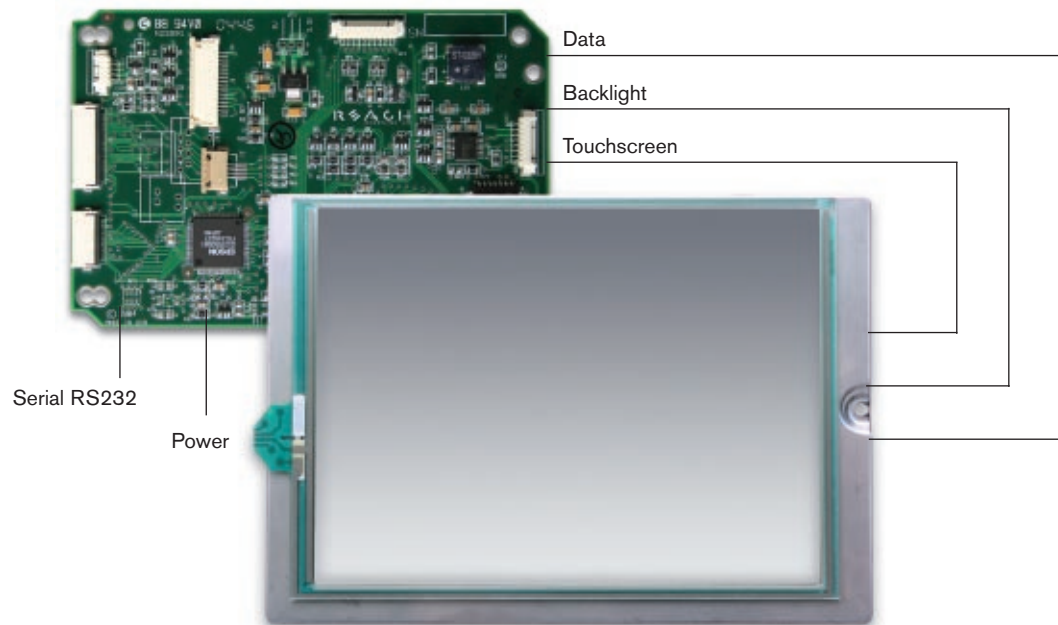
"The SLCD kit works great, and it's exactly what we were looking for. This is a neat little board."

– Scott Harkless, Design Engineer, Alcorn McBride Inc.

SLCD Controller Board Specifications

Board Specifications

| | |
|-----------------------|---|
| Board Size (W/L/D) | 3" x 4.5" x 0.3"/ 76.2mm x 114.3mm x 7.62mm |
| Operating Temperature | 0° to 70°C (-40° to 85°C special order) |
| Storage Temperature | -40° to 85°C |
| Microprocessor | 16-bit with 512K embedded flash and 31K SRAM at 20MHz |
| Power input | 5V or 3.3V; typical operating current is 40mA |
| Serial Interface | RS232 or CMOS levels at panel voltage |
| LCD Backlight Control | On/off under software control |
| LCD Controller | Epson S1D13705 (1375) |
| EEProm | Nonvolatile storage for user settings |



**Download the SLCD manual and check out Application notes
and more at www.reachtech.com**