

"SMALL SIZE"  
FOR SMALL DISPLAYS

"BIG CAPABILITY"  
FOR LARGE DISPLAYS

## Description

The UA1 Series LCD Controller is a feature rich, cost effective board designed to drive most of today's TFT LCD flat panel displays. The UA1 series provides the engineer many options not found on other controllers, and is designed and manufactured in the USA. An array of inverter controls and cabling options allows easy integration into any product. Auto-input synchronization circuitry, complete system-on-a-chip processor and the sixth generation integrated ADC provides outstanding image quality and reliability. These controllers can be configured to support TTL and LVDS panel directly. Optional cables and inverters are also available in kit form for many panels. The UA1 power supply is designed to be robust enough to handle even the largest panels with power to spare and producing less heat. UA1 series supports LCD panels from VGA to SXGA resolution. UA1 controllers can support both DVI & Analog inputs, up to SXGA resolutions depending on the configuration ordered.

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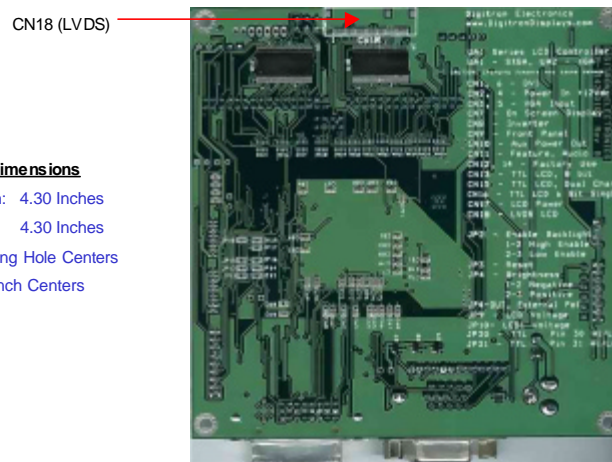
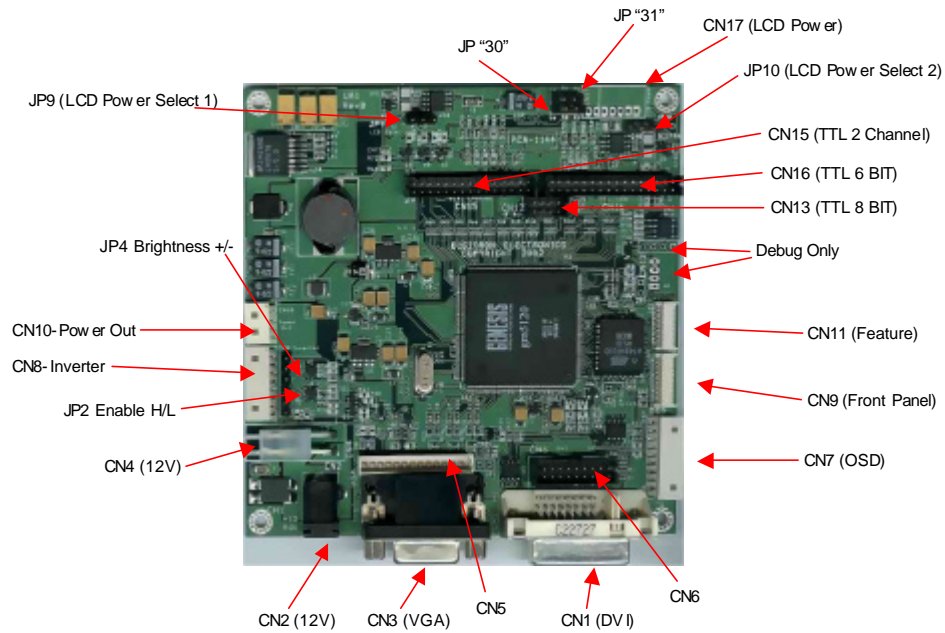
### FEATURES:

- ✍ Long Product Life support - **3+ years**
  - ✍ Designed with flexibility in mind for the OEM market
  - ✍ Complete system-on-a-chip processor offers the best in reliability
  - ✍ Optional Integrated Ultra-Reliable DVI 1.0 compliant receiver
  - ✍ Support for TTL 6-bit, 8-bit, Dual Clock, LVDS, Open LDI
  - ✍ LVDS & Open LDI integrated on main controller - **No need for daughter board**
  - ✍ Robust Power Supply Circuitry can drive Large LCD's and High Bright requirements
  - ✍ HDCP and non-HDCP capable versions available
  - ✍ Production firmware embedded in internal ROM
  - ✍ Revolutionary language independent icon-based OSD embedded in internal ROM
  - ✍ Support for optional external ROM
  - ✍ Digital color processing for PC-2001 sRGB compliance
  - ✍ Energy Spectrum management techniques for system EMI reduction
  - ✍ Integrated system micro-controller for overall system reliability
  - ✍ Real Recovery image manipulation for memory-less support of "out of range" signals
  - ✍ Comprehensive suite of internal test patterns for manufacturing test
  - ✍ Low power stand-by mode of operation
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Manufactured in the USA  
to the Highest Quality Standards

## CONTROLLER LAYOUT



### UA1 Dimensions

Length: 4.30 Inches  
 Width: 4.30 Inches  
 Mounting Hole Centers  
 4.00 Inch Centers

Model UA1 shown  
 DVI populated  
 SXGA resolution  
 Dual LVDS drivers

LEGEND on BACK  
 is a reference for  
 controller options

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