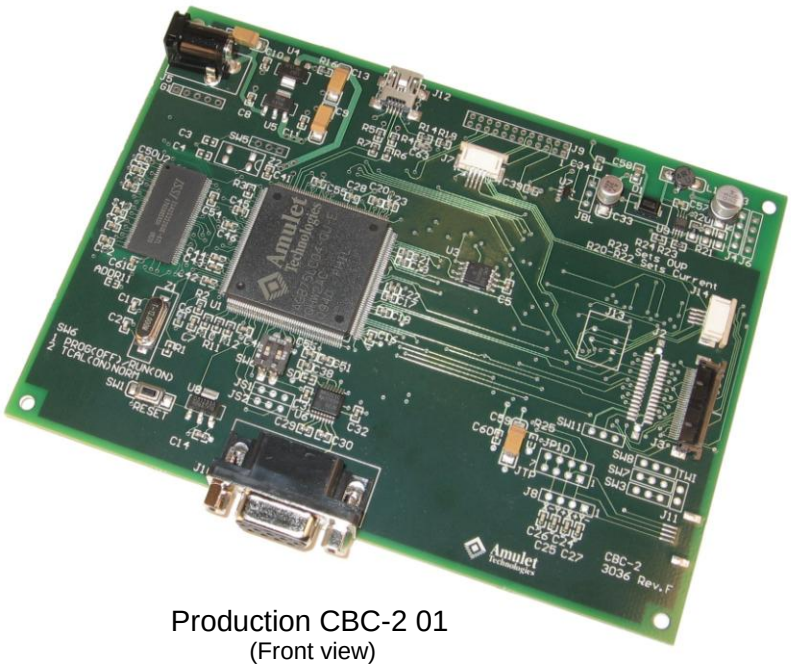
Product Description
A production controller board designed to drive many popular 5.7" QVGA and VGA color LCDs.

GEMboard™ can support a wide variety and growing list of 5.7" TFT panels. This board includes those unique electro-mechanical features to accommodate the FPC, touch panel and LED backlight for many popular 5.7" displays – see attached table.

The GEMboard™ includes the Amulet Graphical Chip™, a 32 megabit serial flash for storing GUI pages, a 64 megabit SDRAM, two touch panel connectors as well as two LED backlight connectors to accommodate a variety of 5.7" displays.



Production CBC-2 01
(Front view)

The CBC-2 includes a 33 conductor Flat Panel Cable (FPC) and screws to attach the PCBA to the LCD that exist in many 5.7" panels. The PCBA comes standard with the 33 pin connector stuffed. Optional, is a 31 pin header that can be stuffed (customer option) to support those displays using that style connector and signals.

Included in the datasheet is the list of the supported display with complete part numbers, connector call outs for the appropriate backlight and touch panel connectors.

The 01 is designed for high brightness displays requiring up to 200mA. By changing the value of one resistor, the CBC-2 can accommodate the current requirement of most LED backlight circuits. This information is included in the datasheet

Customers should consult that guide first and compare it to the specific display they intend to use before purchasing and connecting the LCD to the CBC-2

Product Features

- Amulet AGB75LC04-QU-E 208 PQFP Graphical OS Chip™
- Integrated resistive 4 or 5 wire touch panel decoder with two touch panel connectors
- Supports LCDs with LED backlight 75mA or 200mA and two backlight connectors locate on backside of PCBA
- Storage Capacity – 32megabit Serial Flash (GUI page storage)
- 64megabit SDRAM (frame buffer)
- Serial Interfaces – 3.3v UART, USB, RS232
- Kit includes 33 conductor flat panel cable
- Auxiliary FPC pad can support a variety of larger panels that use 31 pin conductors