

TECHNICAL BRIEF

BY: AZD ENGINEERING

Medium to Large Size COB Graphic Displays

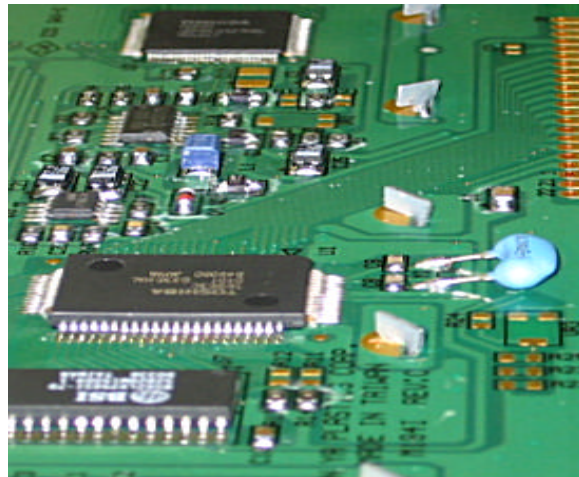
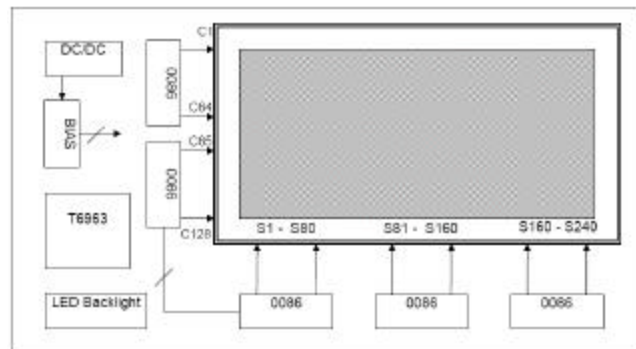
While “glass-only” segment type displays allow users to interface LCDs by their own means to driver ICs on the their board, it is different in case of graphic displays. Because of the high pitch and complexity of their outputs, graphic displays are interfaced to supporting ICs and assembled into LCD modules only by LCD manufacturers.

Controllers and Drivers

Chip on board display modules contain many components to support operation of LCDs. Many of these crucial parts include controller and driver ICs.

A controller is the central processing unit for the display. Its main function is to read/write data and process the timing signals for such input and output. In addition, a controller’s vital role is to control each pixel of a LCD graphic or character array.

Many controllers are not designed for higher resolution displays and therefore require additional driver ICs. A driver IC’s main function is to assist the controller in managing the rows and columns of a graphic and character array. A distinguishable difference between a controller and driver are the pinouts where a controller would only have the read/write terminals.



New Releases

AZ Displays announces availability of a new graphic chip on board (COB) module of 240x128 resolution p/n AGM2412A-FLB-FTH. The display features black graphics or text on sky-blue background (provided by Blue LED backlight) and built-in character generator ROM.