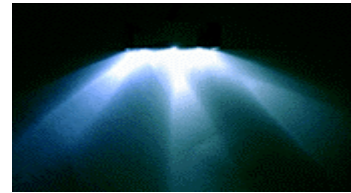


TECHNICAL BRIEF

BY: AZD ENGINEERING

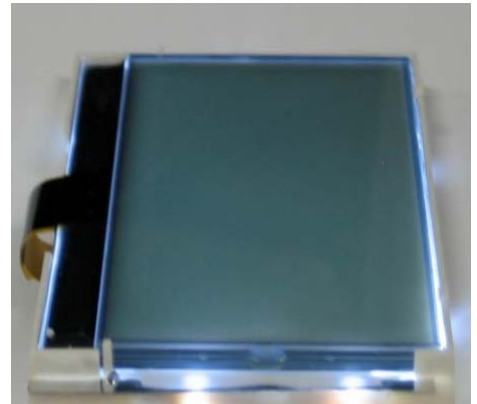


LED Backlight

The wide variety of available colors among light emitting diodes helps LCD manufacturers to create new eye-appealing color combinations for displays. Longer lasting and more reliable than CCFL tubes, LED backlight is a preferred choice for backlighting. Aside from the smaller sizes, AZ Displays now implements white LED technology for backlighting larger LCDs of 5.0 and 5.7”.

White LEDs

Developed in the mid 1990s, white LEDs have been widely known for its unique color and brightness. The white light was actually produced and originated from the development of blue LEDs. By combining additional colors such as red and green, a white pattern of light was created. White LEDs are mostly made of up GaN (Gallium Nitride) along with the a few different type of phosphor elements. Their main advantage over other types of backlights such as CCFL, are insensitivity to vibration/shock, durability, long life span (50k hours), minimal heat output, and quick turn-on/reaction time (0.01 seconds).



New Releases

AZ Displays introduces new standard LCD modules with built-in white LED backlights. AGM2412D-NLW-BTD-02 is a 240x128 graphic display with a character font table embedded along with the on-board LCD controller; measures 5” in diagonal, white content on pure blue background. AGM3224J-FLW-FBW is a 320x240 graphic display, measures 5.7” in a diagonal, black graphics on pure white background. Please contact AZ Displays at 949-360-5830 for more information.

