

TECHNICAL BRIEF

BY: AZD ENGINEERING

All-in-one Display

In response to popular demand for LCD package solutions, AZ Displays now offers a number of monochrome LCD modules, which can be interfaced directly to a customer's MPU. These all-in-one LCD modules feature the following built-in components:

1. White LED backlight (spares from having to use a DC/AC converter)
2. DC/DC converter for contrast adjustment voltage
3. Touch panel, 4-wire resistive type
4. Touch controller IC
5. LCD controller IC

The Design

The LCD controller itself is a low power consumption IC of LSI type, which features multiple electronic gates on a single chip. Also found on our all-in-one displays, is a built in power circuit for supplying the LCD driving voltage for contrast to the glass display. Therefore, only 5V or 3.3V are required for powering the display module. In addition, TAB IC drivers were added along with the embedded PCB touch panel controller for space-saving and hand held applications. The factory assembled 4-wire resistive touch panel can be operated with the touch of a finger or stylus. Aside from its low 3.5V operating White LED backlight voltage, the PCB module of this display carries a unique jumper setting feature that can cycle between landscape and portrait modes.



New Releases

New all-in-one modules AGM2432D-FLW-FBH-T-05 (4") and AGM3224F-FLW-FBH-T (5.7") feature built-in components referenced above (1 to 5). AGM3224F-FLW-FBH-T is to be used with a customer's own touch-screen controller. Specifications of both modules can be found on our website.