

OLED Alphanumeric Display Designed for Wide Temperature Range

Electronic Assembly has added the EA W202-XDLG to its range of high-quality alphanumeric displays. The technology has the advantage of high contrast for good visibility combined with low energy consumption. The new EA W202-XDLG also features an onboard controller which supports user-friendly connectivity options, and it operates over a temperature range, making it suitable for automotive applications.

The EA W202-XDLG displays two lines containing 20 characters each. The character height is 9.66 mm which is currently the maximum in the OLED display range. The onboard controller is compatible with the popular HD44780, so when using the EA W202-XDLG system developers will find themselves on familiar ground. The controller has an SPI interface for communication with the outside world. It can also be connected to a 4 or 8 bit data bus also. A range of functions including Clear Display, Shift Display, Shift Cursor and Cursor on/off can be performed with a single command.

The complete ASCII character set including special characters is factory installed in the character ROM. The user has the choice of 4 different fonts: English, European I, European II and Cyrillic. In addition, 8 characters are user definable.

The EA W202-XDLG operates over a temperature range of -40°C to +80°C. It withstands arctic temperatures outdoors and tropical heat inside control cabinets, completely eliminating LCD freezing which typically occurs at low temperatures. The EA W202-XDLG has very low power consumption (15 - 50 mA), and there is no need for a complex multi-level power supply. The display will run from a simple 3.3V - 5V source.