High-Brightness WVGA Color TFT-LCD Module Suits Rugged Outdoor Apps

Mitsubishi Electric is introducing a 5.0” WVGA color TFT-LCD module for industrial use. The product, AA050MG01, features a high brightness of 800 cd/m2. The improved backlight structure reduces the thickness of the module to 3.9 mm and its weight to 80 g. In addition, the new module contains a built-in LED driver to achieve a more compact system design and a better cost effectiveness in customer’s applications. The AA050MG01 features a wide viewing angle of 170 degrees (horizontal/vertical), which is among the widest in the industry and a clear display enabled by a 900:1 high contrast ratio. The TFT-LCD modules with desirable long-life LED backlight performance can be operated without an inverter. The unit’s wide operating temperature range from -20 degrees to 70 degrees Celsius allows it be implemented in applications in rugged outdoor environments.

With the new 5.0” TFT-LCD module Mitsubishi Electric is responding to the increased demand for high brightness color TFT-LCD modules in the 5” class. The increase usage of portable terminals in warehouses or retails stores e.g. to scan and monitor the stock is just one example of a key application field of this size of TFT screens for which good visibility even under the sunlight through a high brightness screen can be ensured.

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