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Mitsubishi Electric Launches 8.4-inch & 10.4-inch Color TFT-LCD Modules

Tokyo, January 12, 2012 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today the launch of its new 8.4-inch VGA and 10.4-inch VGA color TFT-LCD industrial-use modules. The models feature high brightness and high contrast ratio, wide viewing angle, wide-ranging operational temperatures and a low-voltage differential signaling (LVDS) interface. Sales will begin on February 1 through Mitsubishi Electric offices globally (see www.MitsubishiElectric.com/bu/tft_lcd/network). Initial production has been set at 3,000 units per month for each model.



AA084VJ01

AA104VJ02

Product Features

1) ***Greater production efficiency thanks to LVDS interface***

In recent years, the use of LVDS interfaces in TFT-LCD modules has become widespread due to their ability to run at very high speeds at low noise. Adoption of an LVDS interface reduces production costs by exempting the need for customers to change the interface depending on resolution.

2) ***Long service life and inverter-less backlight realized by using white light emitting diodes (LED)***

- At a temperature of 25 degrees Celsius, the LED backlight has a typical operating life of 100,000 hours.
- A high-voltage inverter is not required.
- A circuit board-embedded LED driver enables a compact, low-cost design.

3) **Same dimensions, etc. as existing model for simplified, low-cost replacement installation**

The TFT-LCD modules are compatible with Mitsubishi Electric's existing models (8.4-inch VGA: AA084VG01, 10.4-inch VGA: AA104VH02) in terms of dimensions (width and height) and the location of mounting holes, which means the existing model can be replaced easily and at low cost.

4) **Environmental awareness**

The TFT-LCD modules are fully compliant with the European Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS), and are completely mercury-free.

Specifications

	AA084VJ01	AA104VJ02
Display Size/Resolution	8.4-inch (640 × 480 dots)	10.4-inch (640 × 480 dots)
Display Area (mm)	170.9 (H) × 128.2 (V)	211.2 (H) × 158.4 (V)
Number of Dots	800 (H) × 600 (V)	1024 (H) × 768 (V)
Pixel Pitch (mm)	0.267 (H) × 0.267 (V)	0.267 (H) × 0.267 (V)
Contrast Ratio	800 : 1	800 : 1
Luminance (cd/m ²)	800	800
Viewing Angle (CR > 10)(°)	-80 – +80 (H) -60 – +80 (V)	-80 – +80 (H) -60 – +80 (V)
Optimum Viewing Angle (Contrast Ratio)	6 o'clock	6 o'clock
Number of Colors	262K (6bit/color) 16.77M (8bit/color)	262K (6bit/color) 16.77M (8bit/color)
Backlight Unit	LED	LED
Electrical Interface	LVDS 6/8bit	LVDS 6/8bit
Module Size (mm)	199.5 (W) × 149.0 (H) × 9.7 (D)	230.0 (W) × 180.2 (H) × 9.5 (D)
Operational Temperature (°C)	-30 – +80	-20 – +70
Storage Temperature (°C)	-30 – +80	-20 – +70

About Mitsubishi Electric

With 90 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. The company recorded consolidated group sales of 3,645.3 billion yen (US\$ 43.9 billion*) in the fiscal year ended March 31, 2011. For more information visit <http://www.MitsubishiElectric.com>

*At an exchange rate of 83 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2011