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No. 2660

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Mitsubishi Electric Launches 8.4-, 10.4- & 12.1-inch Color TFT-LCD Modules

Tokyo, February 14, 2012 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today the launch of 8.4-inch SVGA, 10.4-inch SVGA and 12.1-inch SVGA color TFT-LCD modules. These industrial-use models feature super-wide viewing angles, wide-ranging operational temperatures and extended-duration LED backlighting. Sales of the 8.4-inch SVGA and 10.4-inch SVGA modules will begin on March 1, and for the 12.1-inch SVGA module on April 1, through Mitsubishi Electric offices worldwide (www.MitsubishiElectric.com/bu/tft_lcd/network). These industrial-use modules will be presented at FPD China 2012 held in Shanghai, China on March 20-22. Initial production has been set at 5,000 units per month for each model.



The TFT-LCD modules meet the increasing market demands for high brightness, high contrast, wide-ranging operational temperatures and wide viewing angles for diverse applications and installations. The introduction of the three new modules increases Mitsubishi Electric's lineup of super-wide viewing angle models to nine items. Features of the new modules are as follows:

Super-wide viewing angles, high brightness/contrast and vivid color

- Super-wide, 170-degree horizontal and vertical viewing angles ensure excellent visibility, including for off-center-viewing installations.
- High brightness of 600 cd/m² and high contrast ratio of 1,000:1 for easy viewing in bright environments.
- 72% color gamut on NTSC standards.

Market-leading operational temperature range

- Exceptionally wide range of operational temperatures, from -30 degrees C to 80 degrees C, to withstand severe outdoor environments.

Long-life, inverter-less backlight through use of white light-emitting diodes (LED)

- Circuit board-embedded LED driver enables the design to be compact and low-cost.
- LED backlight has a typical operating life of 100,000 hours at an ambient temperature of 25 degrees C.
- No high-voltage inverter is required.

Environmental awareness

- Mercury-free and fully compliant with Europe's Restriction of Hazardous Substances Directive (RoHS).

Specifications

	AA084SC01	AA104SJ02	AA121ST01
Display Size/Resolution	8.4-inch (800×600 dots)	10.4-inch (800×600 dots)	12.1-inch (800×600 dots)
Display Area (mm)	170.4 (H) × 127.8 (V)	211.2 (H) × 158.4 (V)	246.0 (H) × 184.5 (V)
Number of Dots	800 (H) × 600 (V)	800 (H) × 600 (V)	800 (H) × 600 (V)
Pixel Pitch (mm)	0.213 (H) × 0.213 (V)	0.264 (H) × 0.264 (V)	0.3075 (H) × 0.3075 (V)
Contrast Ratio	1000:1	1000:1	1000:1
Luminance (cd/m ²)	600	600	600
Viewing Angle (CR>10; °)	-85 to +85 (H) -85 to +85 (V)	-85 to +85 (H) -85 to +85 (V)	-85 to +85 (H) -85 to +85 (V)
Number of Colors	262K (6 bits/color) 16.77M (8 bits/color)	262K (6 bits/color) 16.77M (8 bits/color)	262K (6 bits/color) 16.77M (8 bits/color)
Color Gamut (NTSC; %)	72	72	72
Backlight Unit	LED	LED	LED
Electrical Interface	LVDS 6/8bit	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)	260.5 (W) × 203.0 (H) × 9.5 (D)
Operational Temperature (°C)	-30 to +80	-30 to +80	-30 to +80
Storage Temperature (°C)	-30 to +80	-30 to +80	-30 to +80

Super-wide viewing angle lineup

Display Size Resolution	Model	Display Size Resolution	Model
5.0-inch	AA050MG01/02	10.4-inch	AA104SJ02
7.0-inch	AA070MC01	10.6-inch	AA106TA01
8.4-inch	AA084SC01	12.1-inch	AA121ST01
9.0-inch	AA090ME01 & AA090AA01	15.0-inch	AA150XS02/11

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About Mitsubishi Electric

With over 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