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*Product Inquiries*

LCD Marketing Dept. Sect. A  
Mitsubishi Electric Corporation  
Tel: +81-3-3218-3289  
Takizawa.Tomoki@dh.MitsubishiElectric.co.jp  
[http://global.mitsubishielectric.com/bu/tft\\_lcd/index.html](http://global.mitsubishielectric.com/bu/tft_lcd/index.html)

*Media Contact*

Public Relations Division  
Mitsubishi Electric Corporation  
Tel: +81-3-3218-3380  
prd.gnews@nk.MitsubishiElectric.co.jp  
<http://global.mitsubishielectric.com/news/>

**Mitsubishi Electric to Sell 12.1-inch Color TFT-LCD Module Internationally**  
**Provides enhanced solutions for POS system displays and portable data terminals**

**Tokyo, October 27, 2009** – [Mitsubishi Electric Corporation](#) (TYO: 6503) announced today it has developed a 12.1-inch XGA color TFT-LCD module that is approximately 10% smaller in size with a reduced frame width compared to its previous model. The new AA121XL01 offers super high brightness (up to 1,000 cd/m<sup>2</sup>) and longer backlight life thanks to white light emitting diodes (LED), and is inverter-less. These improvements are expected to help reduce size and weight of portable data terminals and other display monitors for POS systems which incorporate the new model.

The product will be available beginning February 1, 2010 through Mitsubishi Electric's sales sites ([http://global.mitsubishielectric.com/bu/tft\\_lcd/network/index.html](http://global.mitsubishielectric.com/bu/tft_lcd/network/index.html)) in Japan, Europe, China, Korea, and Taiwan. Incorporating the technologies used in the AA121XL01, Mitsubishi Electric also intends to expand its lineup of smaller TFT-LCD modules to further meet customer needs. The cost per unit in Japan will be 52,500 yen, including consumption tax.

**Background:**

In recent years, TFT-LCD modules have been widely used in a variety of applications and environments. Store or warehouse inventory management and factory processing management often relies on POS systems with information display monitors as well as portable data terminals, which interpret digital pen movements. These applications in particular need TFT-LCD modules that are compact and maintain high brightness to ensure high optical performance.

**Main Product Features:**

- 1) 10% smaller size and 20% less thickness helps reduce size and weight of portable data terminals and other display monitors for POS systems*

Without changing the 12.1-inch size of the active area, Mitsubishi Electric has reduced the module size from 280.0mm (W) x 210.0mm (H) x 12.0mm (D) to 260.5mm (W) x 203.0mm (H) x 9.7mm (D), which is

approximately 10% smaller and 20% thinner compared to the AA121XK01, the previous model with a luminance of only 500 cd/m<sup>2</sup>. The weight has also been reduced by 20% from 750g to 610g.

**2) *Market-leading super high brightness, long lifespan and inverter-less specification incorporating white LED backlight***

By incorporating white LED backlights, the new 12.1-inch XGA TFT-LCD module has achieved a market-leading super high brightness of 1000 cd/m<sup>2</sup>, allowing excellent visibility in bright environments. The minimum backlight lifespan is 60,000 hours at room temperature (25 °C), making the product suitable for long-use applications. To the AA121XL01's inverter-less construction helps eliminate the need for portable data terminals and other POS system display monitors to incorporate high-voltage inverters for the TFT-LCD modules, thereby lowering product costs.

**3) *Market-leading wide operating temperature range***

Mitsubishi Electric's TFT-LCD modules have a market-leading operating temperature range of -30 to 80 degrees C, making the products suitable for applications that require use in harsh operating environments.

**4) *Displaying vivid and clear images***

Mitsubishi Electric's TFT-LCD modules incorporate the company's original color conversion technology, which helps show natural and realistic images by adjusting lost colors arising from LCD characteristics, providing clear and vivid color display.

**5) *Environmental consideration***

All Mitsubishi Electric TFT-LCD modules are compliant with the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS), and are mercury-free.

Item	Specifications
Part Number	AA121XL01
Display size/ Resolution	12.1-inch XGA
Display Area (mm)	245.76 (H) × 184.32 (V)
Number of Dots	1024 (H) × 768 (V)
Pixel Pitch (mm)	0.240 (H) × 0.240 (V)
Contrast Ratio	600:1
Luminance (cd/m <sup>2</sup> )	1000
Viewing Angle (CR>10)(°)	-80 ~ +80 (H), -60 ~ +80 (V)
Optimum Viewing Angle (Contrast ratio)	6 o'clock
Number of color	262K (6bit/color) 16.77M (8bit/color)
Backlight Unit	LED
Electrical Interface	LVDS 6/8bit
Module Size (mm)	260.5 (W)×203.0 (H)×9.7 (D)
Operation Temperature (°C)	-30 ~ +80
Storage Temperature (°C)	-30 ~ +80

### **About Mitsubishi Electric**

With over 85 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (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 3,665.1 billion yen (US\$ 37.4 billion\*) in the fiscal year ended March 31, 2009. For more information visit <http://global.mitsubishielectric.com>

\*At an exchange rate of 98 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2009.

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