

## Mitsubishi Electric to Launch 8.4-inch and 12.1-inch XGA Color TFT-LCD Modules

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Mitsubishi Electric Corporation (TOKYO: 6503) announced today the launch of its new 8.4-inch and 12.1-inch XGA TFT-LCD modules for industrial applications such as medical equipment, measuring instruments and ship/train instruments. The modules feature an unprecedented combination of super-wide 170-degree horizontal/vertical viewing angles, high resolution, 500/600/1,000 cd/m<sup>2</sup> high brightness, 1000:1 high contrast ratio, -30 to 80 degrees Celsius operating temperature range, and 100,000

standard hours of LED backlight life. Sales will begin August 1 through Mitsubishi Electric offices worldwide.



The new TFT-LCD modules meet the increasing market demands for high contrast, high resolution, wide viewing angles and resistance to extreme temperatures for versatile applications and installations. With their additions, Mitsubishi Electric's lineup of TFT-LCD modules with super-wide viewing angles increases to 26.

### Product Features

#### **1) Super-wide viewing angle, high resolution, high brightness and contrast ratio**

- 170-degree super-wide horizontal/vertical viewing angles ensure excellent visibility, even with off-center installations
- High resolution of 1,024 (H) × 768 (V) XGA capably handles dense on-screen information
- High brightness of 500/600/1,000 cd/m<sup>2</sup>\* and high contrast ratio of 1000:1 for easy visibility in bright environments

\* AA121XP01: 500cd/m<sup>2</sup>, AA084XD01: 600cd/m<sup>2</sup>, AA084XD11 & AA121XP11: 1,000cd/m<sup>2</sup>

#### **2) Durability for extreme outdoor environments**

- Market-leading range of operating temperatures from -30 to 80 degrees Celsius

#### **3) Long-life, inverter-less backlight through use of white light-emitting diode**

- Circuit board-embedded LED driver help realize compact, low-cost design\*\*
- LED backlight has a typical operating life of 100,000 hours at an ambient temperature of 25 degrees Celsius

- No high-voltage inverter is required

\*\* AA084XD01&AA121XP01 models

### Sales Schedule

Product	Model	Shipment	Production
8.4-inch XGA TFT-LCD Module	AA084XD01	August 1, 2015	2,000 units each per month
	AA084XD11		
12.1-inch XGA TFT-LCD Module	AA121XP01		
	AA121XP11		

### Specifications

Model Number	AA084XD01	AA084XD11	AA121XP01	AA121XP11
Display Size (resolution)	8.4- inch XGA		12.1-inch XGA	
Display Area (mm)	170.496 (H) × 127.872 (V)		245.76 (H) × 184.32 (V)	
Dots	1024 (H) × 768 (V)		1024 (H) × 768 (V)	
Pixel Pitch (mm)	0.1665 (H) × 0.1665 (V)		0.240 (H) × 0.240 (V)	
Contrast Ratio	1000:1			
Luminance (cd/m2)	600	1,000	500	1,000
View Angles (CR>10)(°)	-85 – +85 (H) -85 – +85 (V)			
Colors	262k (6bit/color); 16.77M (8bit/color)			
Color Gamut (NTSC; %)	50		72	50
Backlight Unit LED	LED			
Electrical Interface	LVDS 6/8bit			
Dimensions (mm)	199.5 (W) × 149.0 (H) × 9.7 (D)		260.5 (W) × 203.0 (H) × 9.5 (D)	
Operating Temperatures (°C)	-30 – +80			
Storage Temperatures (°C)	-30 – +80			

### Super-Wide Viewing Angle Lineup

Display	Resolution	Model
5.0- inch	WVGA	AA050MG03/MH01
7.0- inch	WVGA	AA070MC01/11
7.8- inch	800×300	AA078AA01
<b>8.4- inch</b>	SVGA	AA084SC01
	<b>XGA</b>	<b>AA084XD01/11</b>
9.0- inch	WVGA	AA090ME01
	QHD	AA090AA01
	WXGA	AA090TB01
10.4- inch	SVGA	AA104SJ02
	XGA	AA104XG02/12
10.6- inch	WXGA	AA106TA01/11
<b>12.1- inch</b>	SVGA	AA121ST01
	<b>XGA</b>	<b>AA121XP01/11</b>
	WXGA	AA121TH01/11
15.0- inch	XGA	AA150XW01/11
	SXGA+	AA150PD03/13
17.5-inch	WXGA	AA175TE03

### Environmental Awareness

The models are mercury-free and fully compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive 2011/65/EU.

### About Mitsubishi Electric Corporation

With over 90 years of experience in providing reliable, high-quality products, 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. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,323.0 billion yen (US\$ 36.0 billion\*) in the fiscal year ended March 31, 2015. For more information visit: <http://www.MitsubishiElectric.com> \*At an exchange rate of 120 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2015