

**MITSUBISHI ELECTRIC CORPORATION**  
**PUBLIC RELATIONS DIVISION**  
7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-8310 Japan

**FOR IMMEDIATE RELEASE**

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*Customer Inquiries*

*Media Inquiries*

LCD Marketing Dept.  
Mitsubishi Electric Corporation  
[www.MitsubishiElectric.com/semiconductors/](http://www.MitsubishiElectric.com/semiconductors/)

Public Relations Division  
Mitsubishi Electric Corporation  
[prd.gnews@nk.MitsubishiElectric.co.jp](mailto:prd.gnews@nk.MitsubishiElectric.co.jp)  
[www.MitsubishiElectric.com/news](http://www.MitsubishiElectric.com/news)

## **Mitsubishi Electric to Launch 12.1-inch WXGA Color TFT-LCD Modules**

*Ideal for use in harsh outdoor environments and in industrial applications*

**TOKYO, October 3, 2019** – [Mitsubishi Electric Corporation](http://www.mitsubishi-electric.com) (TOKYO: 6503) announced today the launch of a 12.1-inch WXGA TFT-LCD module designed for use in harsh outdoor environments, such as on construction sites and in heavy-duty vehicles, as well as in industrial applications and in agricultural use.

The new modules will offer an unprecedented combination of advanced features, including high-resolution WXGA (1,280 × 800 pixels), super-wide 176-degree horizontal/vertical viewing angles and a high luminosity of 1,500 cd/m<sup>2</sup>. They will additionally feature a high contrast ratio of 1,000:1, a versatile operating-temperature range of -40 to +80 degrees Celsius and will have high resistance to vibration, attributes for which there is increasing market demand.

Sample sales will commence October 31 through Mitsubishi Electric offices worldwide.



Mitsubishi Electric Color TFT-LCD Module  
AA121TJ11

### **Product Features**

#### **1) *Wide operating-temperature range and high vibration resistance***

- Rugged components enable use in extreme temperatures ranging from -40 to +80 degrees Celsius.
- Optimized mechanical design achieves high vibration resistance of 6.8Gs (7x greater than 1.0Gs of existing Mitsubishi Electric “AA-” products) allowing compression mounting (LCD peripherals attached to chassis from behind) or 1.5Gs for side mounting (attached to chassis via side openings).

2) *High resolution, super-wide viewing angles and high luminosity suited for diverse measuring instruments and installations*

- High-resolution (WXGA) screen capable of handling dense text and images.
- Super-wide viewing angle of 176 degrees, both horizontally and vertically, ensures excellent visibility in a wide range of installation scenarios.
- High luminosity of 1,500 cd/m<sup>2</sup> and a high contrast ratio of 1,000:1 providing excellent visibility even in bright environments. Dimming ratio from 1 to 100 percent assures visibility at any level of ambient brightness.
- Newly-designed TFT panel improves the NTSC color gamut by 70 percent over the previous model (AA121TH), providing vibrant graphics.

**Sales Schedule**

Product	Size	Resolution	Model	LED driver	Sample Shipments
TFT-LCD Module	12.1-inch	WXGA	AA121TJ01	Implemented	October 31, 2019
			AA121TJ11	Not implemented	

**Specifications**

	AA121TJ01	AA121TJ11
Display size (resolution)	12.1-inch WXGA	
Display area (mm)	261.12 (H) × 163.2 (V)	
Pixels	1,280 (H) × 800 (V)	
Pixel configuration	RGB stripe	
Pixel pitch (mm)	0.204 (H) × 0.204 (V)	
Contrast ratio	1,000:1	
Luminance (cd/m <sup>2</sup> )	1,500	
View angles (°) (U/D), (L/R)	88/88, 88/88	
Colors	262k (6bit/color) / 16.77M (8bit/color)	
Color gamut (NTSC; %)	70	
LED driver	Implemented	Not implemented
Typical backlight lifetime	100,000 hours	
Electrical interface	LVDS 6/8-bit	
Dimensions (mm)	283.0 × 185.1 × 9.7	
Operating temperatures (°C)	-40 to +80	
Storage temperatures (°C)	-40 to +80	
Vibration (non-operation) (G (acceleration))	6.8	

**Lineup of color TFT-LCD modules offering wide operating-temperature range and high vibration resistance (new models in bold)**

Display	Resolution	Model	Display	Resolution	Model
7.0-inch	WXGA	AA070TA01/11	12.1-inch	WXGA	<b>AA121TJ01/11</b>

### **Environmental Awareness**

These models are compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive 2011/65/EU and (EU) 2015/863.

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### **About Mitsubishi Electric Corporation**

With nearly 100 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 a revenue of 4,519.9 billion yen (US\$ 40.7 billion\*) in the fiscal year ended March 31, 2019. For more information visit:

[www.MitsubishiElectric.com](http://www.MitsubishiElectric.com)

\*At an exchange rate of 111 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2019