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FOR IMMEDIATE RELEASE

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Mitsubishi Electric's New Intelligent-GUI TFT-LCD Module Combines Greatly Enhanced Graphics with Cost-cutting GUI Design

TOKYO, April 10, 2017– [Mitsubishi Electric Corporation](http://www.mitsubishi-electric.com) (TOKYO: 6503) announced today the immediate launch of a new intelligent-GUI (graphical user interface) TFT-LCD module featuring a high-quality graphics board and touch panel. The graphics board, equipped for video camera image processing/display and interchangeable GUI, delivers broad graphical-expression capabilities while reducing needs for GUI-design development resources.

Mitsubishi Electric will exhibit its intelligent-GUI TFT-LCD module during the 20th Embedded Systems Expo (ESEC Spring) at the Tokyo Big Sight exhibition complex from May 10 to 12.



Video camera image and meter in portrait view



Video camera image in center of meter



Switching GUI image (Multilingual)

Example graphics created with new Intelligent-GUI TFT-LCD module
 CB01-01A2

Product Features

1) *Camera image processing for rich graphical design*

- Sesamicro[®], Mitsubishi's proprietary compact, high-speed intellectual property (IP) core for GUI, enables quick camera-image processing, such as rotation, mirror images, and cropping to various shapes
- Rich graphics can be realized by rotating camera images and combining them with other graphics

2) GUI image-switching function reduces need for GUI-design development resources

- GUI are easily interchangeable for different languages, day/night use, etc., by changing all widget (buttons, slide bars and other GUI components) image files
- Integration of conventional screen configurations helps lowers cost and time of GUI design

3) Drastically reduced user’s system development costs

- One-stop solution (graphics board, touch panel and LCD module) is combined with Mitsubishi’s proprietary tool for GUI design, Intelligent GUI Designer
- Simplified GUI configuration process can significantly lower software-development costs by up to 50% (according to an actual comparison made by Mitsubishi Electric)

Sales Schedule

Product	Model		Comments	Shipment	Production
Intelligent-GUI TFT-LCD Module	TFT-LCD Module	(optional)	An LCD Module combined with the graphics board	April 10, 2017	2,000 units per month
	Graphics Board	CB01-01A2	Up to 60 frames per second		

Specifications (Graphics Board)

Model	CB01-01A2
Communication protocols	UART: 5V, max. 384Kbps RS-232C: max. 115.2Kbps
Drawing function	Vector graphics
Image inputs	Digital interface (TMDS, 1ch)
	Analog interface (CVBS: NTSC, 1ch)
Display interface	LVDS
Display colors	16.7M (8-bit/Color)
Display resolutions*	VGA (640×480), WVGA (800×480), SVGA (800×600), XGA (1024×768), WXGA (1280×768), WXGA (1280×800), Special (800×300)
Applicable displays*	6.5 inches to 15.0 inches
Other control functions	Touch panel and LED backlight
Input voltage (V)	12.0
Permissive input current capacity (A)	2.2 (including for LCD, Touch panel and LED)
Dimensions (mm)	122.0 (W) × 84.8 (D) × 10.0 (H)

*Resolution and display sizes will be sequentially expanded. Please inquire for details.

Environmental Awareness

The model is 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.

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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 4,394.3 billion yen (US\$ 38.8 billion*) in the fiscal year ended March 31, 2016. For more information visit:

<http://www.MitsubishiElectric.com>

*At an exchange rate of 113 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2016

Sesamicro is a registered trademark of Mitsubishi Electric Corporation.