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## **Mitsubishi Electric to Launch MELIPC Series Industrial-use Computers**

*Will contribute to the introduction of Internet of Things (IoT) for production equipment  
by integrating real-time control and information processing*

**TOKYO, April 19, 2018** – [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today that it will launch three MELIPC Series industrial-use computer models for factory automation (FA) control applications and edge computing sequentially from the end of June 2018. The flagship MI5000 combines real-time equipment control and information processing in one box, the midrange MI2000 is designed for wide-ranging system expansion, and the compact, low-cost MI1000 will enable companies to begin introducing IoT on their factory floors.



### **Key Feature**

#### ***1) MI5000 for edge computing that integrates real-time equipment control and information processing***

- High-speed collection, diagnosis and feedback of production floor data utilizing a single machine equipped with VxWorks<sup>®1</sup> and Windows<sup>®</sup> operating system. Saves space and reduces costs of building IoT systems.
- CC-Link IE Field Network compatibility enables high-speed data exchange at speeds of up to 1ms for highly accurate real-time equipment control.
- Quality equivalent to that of Mitsubishi Electric MELSEC Series general-purpose programmable controllers is guaranteed. Compliance with IEC<sup>2</sup>/JIS standards ensures robustness and resilience required for use at production sites.

<sup>1</sup> Real-time operating system for embedded systems developed and sold by Wind River Systems, Inc.

<sup>2</sup> International organization that sets standards for electrical, electronics and related technologies

**2) MI2000 for wide-ranging system expansions to optimize IoT use on production floors**

- Contributes to improved product quality by performing data diagnostics and operations monitoring at production sites, using a built-in high-performance processor and Windows® operating system.
- Expands systems using PCI and PCI Express<sup>3</sup> expansion ports. Performs high-speed collection of production data using CC-Link IE Field Network boards (optional), and advanced equipment control via input/output boards (optional).

<sup>3</sup> Interface to connect computers and peripherals for system expansion

**3) MI1000 for low-cost introduction of IoT at existing production facilities to enhance innovation**

- Compact chassis with Windows® preinstalled for highly flexible production-floor installations.
- When installed as a gateway in existing facilities having no communication functions, enables data exchanges with host systems for the low-cost introduction of IoT.

**Sales Schedule**

Product		Model	Shipment date	Sales target FY2019
MELIPC Series industrial-use computers	MI5000	MI5122-VW	Sequentially	1,000 units
	MI2000	MI2012-W	from the end of	
	MI1000	MI1002-W	June 2018	

**Specifications**

Product	Model	Key specifications and types
MI5000	MI5122-VW	CPU: Intel® Core i7 4Core, Main memory: 16GB, OS: VxWorks®7, Windows®10 IoT Enterprise
MI2000	MI2012-W	CPU: Intel® Core i3 2Core, Main memory: 8GB, OS: Windows®10 IoT Enterprise
MI1000	MI1002-W	CPU: Intel® Atom 2Core, Main memory: 4GB, OS: Windows®10 IoT Enterprise
Replacement power supply	MI5A1P	Replacement power supply for MI5000
Replacement fan	MI5FAN	Replacement fan for MI5000
Storage for expansion	NZ1MEM-16GBCFT	16GB CFast® card
	NZ1MEM-32GBCFT	32GB CFast® card
	NZ1MEM-64GBCFT	64GB CFast® card
C development environment CW Workbench 4	SW1DND-CWW4-E	License set product, additional license product, update-license product

## **Background**

The expanding use of information technology (IT) at production sites is generating increased demand for FA systems that further integrate the information-processing capabilities of computers and equipment with data inputs and outputs for the real-time processing and feedback of control signals. In addition, edge computing is attracting attention as a means to improve productivity and quality.

Mitsubishi Electric's three MELIPC Series industrial-use computer models for edge computing are equipped with VxWorks® for real-time control and the integration of equipment control and data processing in a single machine, as well as diverse general-purpose applications in Windows®. All models come with basic software for Edgecross<sup>4</sup>, an open platform provided by the Edgecross Consortium, and data collectors<sup>5</sup> manufactured by Mitsubishi Electric. The computers can exchange data with a wide variety of FA equipment and use Edgecross applications for the easy construction of edge-computing systems. Going forward, Mitsubishi Electric will continue working to reduce the total costs of ownership in the manufacturing industry by promoting its e-F@ctory<sup>6</sup> solutions with Edgecross.

<sup>4</sup> Edge computing software platform from Japan for integrating FA and IT

<sup>5</sup> Edgecross software products

<sup>6</sup> Integrated FA solutions that use FA and IT to reduce the total costs of development, production and maintenance

## **Patents**

Patents applications planned for the technology announced in this news release number two in Japan and overseas. A total of eight patent applications have been filed in Japan for technologies announced in this new release.

*MELIPC, MELSEC, CC-Link IE, and e-F@ctory are registered trademarks of Mitsubishi Electric Corporation in Japan and other countries.*

*Edgecross Consortium is currently applying to register the trademark for Edgecross.*

*VxWorks is a registered trademark of Wind River Systems, Inc. of the USA.*

*Windows is a registered trademark of Microsoft Corporation in the USA and other countries.*

*Intel, Intel Core i3, Intel Core i7, Intel Atom and Atom are registered trademarks of Intel Corporation in the USA and other countries.*

*"CFast" is a trademark of CompactFlash Association.*

*The names of other companies and products herein are the trademark or registered trademarks of respective companies.*

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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 4,238.6 billion yen (US\$ 37.8 billion\*) in the fiscal year ended March 31, 2017. For more information visit:

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

\*At an exchange rate of 112 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2017