MITSUBISHI ELECTRIC
Changes for the Better

for a greener tomorrow **eco Changes**

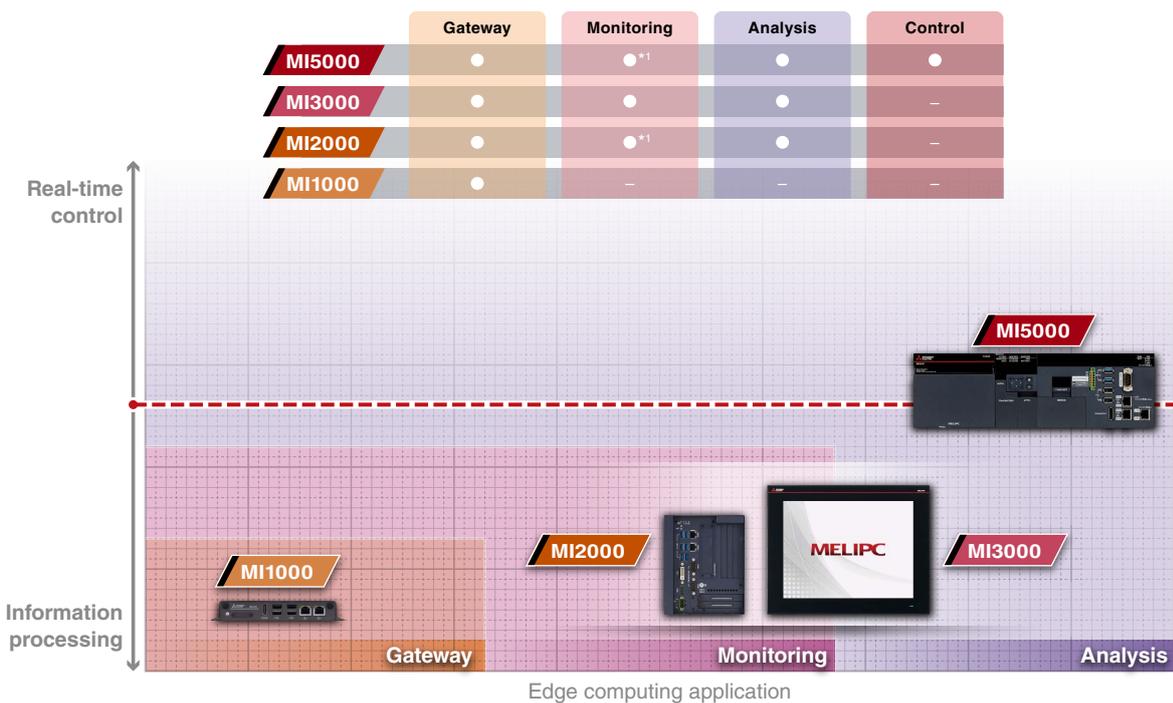**e-F@ctory**

**Industrial Computer
MELIPC Series MI3000**

MELIPC MI3000

Give a shape to your ideas

MELIPC

EDGECROSS

MELIPC

Microsoft Azure Certified

The MELIPC realizes "real-time control" for device control and "Edge computing" enabling data collection/analysis in the middle level between the IT system and shop floor. A wide range of products from a high-end model supporting CC-Link IE Field Network capable of high performance processing and high-speed communications to simple and compact range models are available. The MELIPC corresponds with requirements such as real-time control, preventative maintenance, and quality improvement on the shop floor, contributing to productivity enhancement through utilization of production data.

	Gateway	Monitoring	Analysis	Control
MI5000	●	●*1	●	●
MI3000	●	●	●	–
MI2000	●	●*1	●	–
MI1000	●	–	–	–

Real-time control

Information processing

MI5000

MI2000

MELIPC

MI3000

MI1000

Gateway

Monitoring

Analysis

Edge computing application

*1. Can be displayed on an external monitor.

MI5000

Windows® **VxWorks®**

Edgecross **Data collector** **MI Configurator**

Windows® and VxWorks® pre-installed

The module can run two operating systems at the same time, VxWorks® with deterministic performance for device control and data collection and Windows® for displaying analysis results of collected data, allowing superior processing according to OS. This feature allows one module to realize device control and information processing which were previously managed using a computer and dedicated device, reducing system configuration cost and space for devices.

CC-Link IE Field Network realizes highly accurate device control

Control data and production data of devices can be communicated at 1 ms via CC-Link IE Field Network, realizing highly accurate device control and high-speed production data collection. The module is equipped with CC-Link IE Field Network port and CC-Link IE Field Network Basic port which enable easy connection with compatible products just by setting.

MI3000

Windows®

Edgecross **Data collector** **GT SoftGOT2000**

MI2000/MI1000

Windows®

Edgecross **Data collector**

MI3000   MI2000   MI1000

Display and operate collected data / MI3000

Large screen and high resolution LCD panel is equipped as standard for data display and touch operation. Light-touch operation is realized with a PCAP touch panel that is widely used for smartphones and tablet devices. The touch panel with high transmittance offers clear and high visibility display. In addition, pre-installed software GT SoftGOT2000*[1] enables the same monitoring functions as the GOT2000 Series.

*1. GT SoftGOT2000 license key (for USB port) (sold separately) is not required.

Data analysis and large volume data storage / MI3000 / MI2000

Intel® Core™ i3 CPU realizes simple analysis/diagnosis/monitoring of collected data, contributing to quality improvement. Equipped with 2.5-inch HDD/SSD slot*[2] and PCI Express®/PCI slot*[3], a large volume of data can be stored and functions can be extended.

*2. The 2.5-inch HDD/SSD slot on MI2000 only.
*3. Only PCI Express® on MI3000.

### Compact size realizes computer functions / MI1000

Energy saving Intel® Atom™ E3826 in a compact 26-mm-tall module enables computer functions. Installation in the existing facility is easy as it requires minimal space, contributing to network connection of facilities.

MELIPC

MI3000

GT SoftGOT2000

System configuration

Specifications

Product list

Support

Start IoT solutions with MI3000
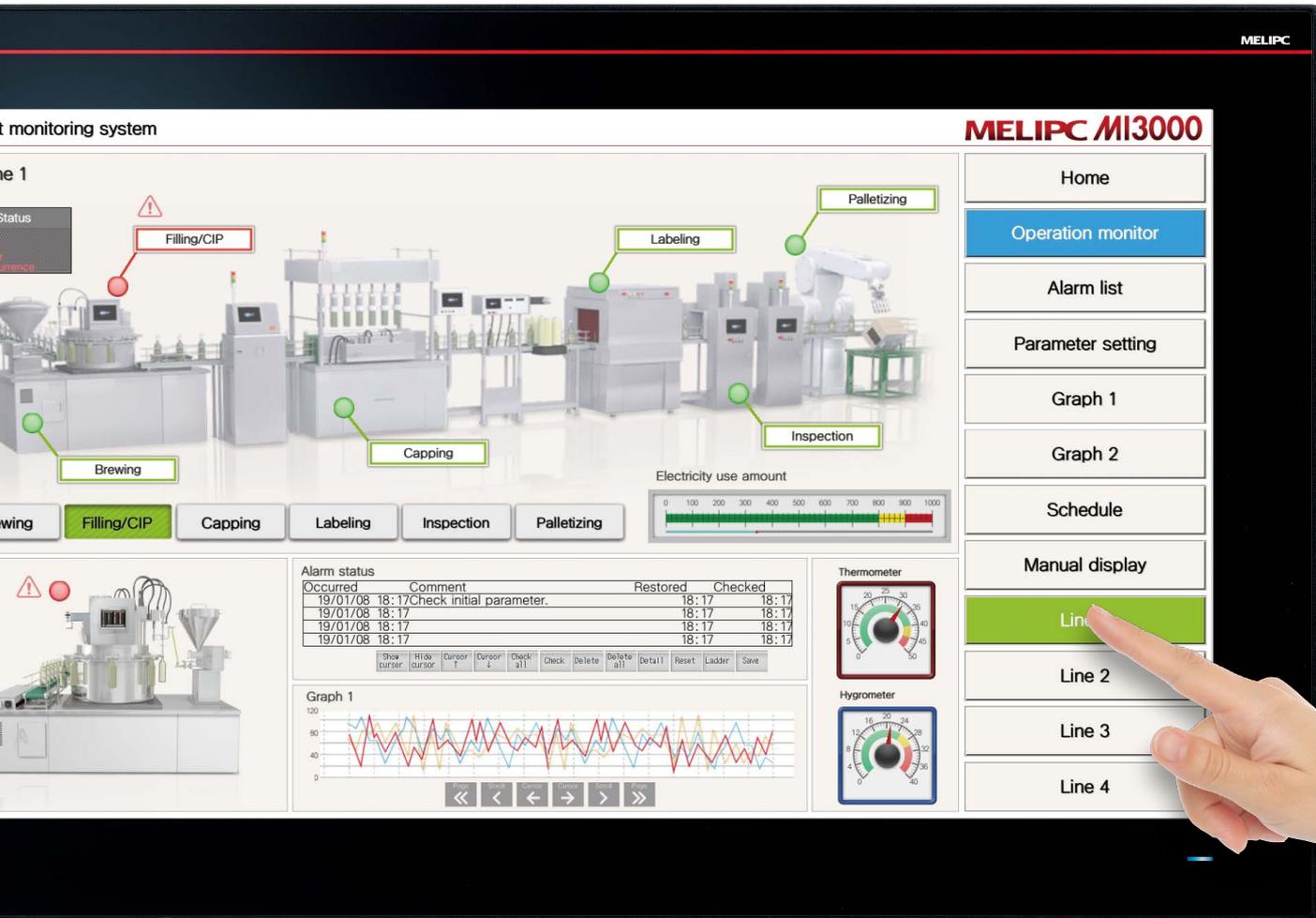# by connecting shop floors with IoT

MI3000

Pre-installed software

- ☑ Edgecross basic software
- ☑ SLMP data collector
- ☑ GT SoftGOT2000
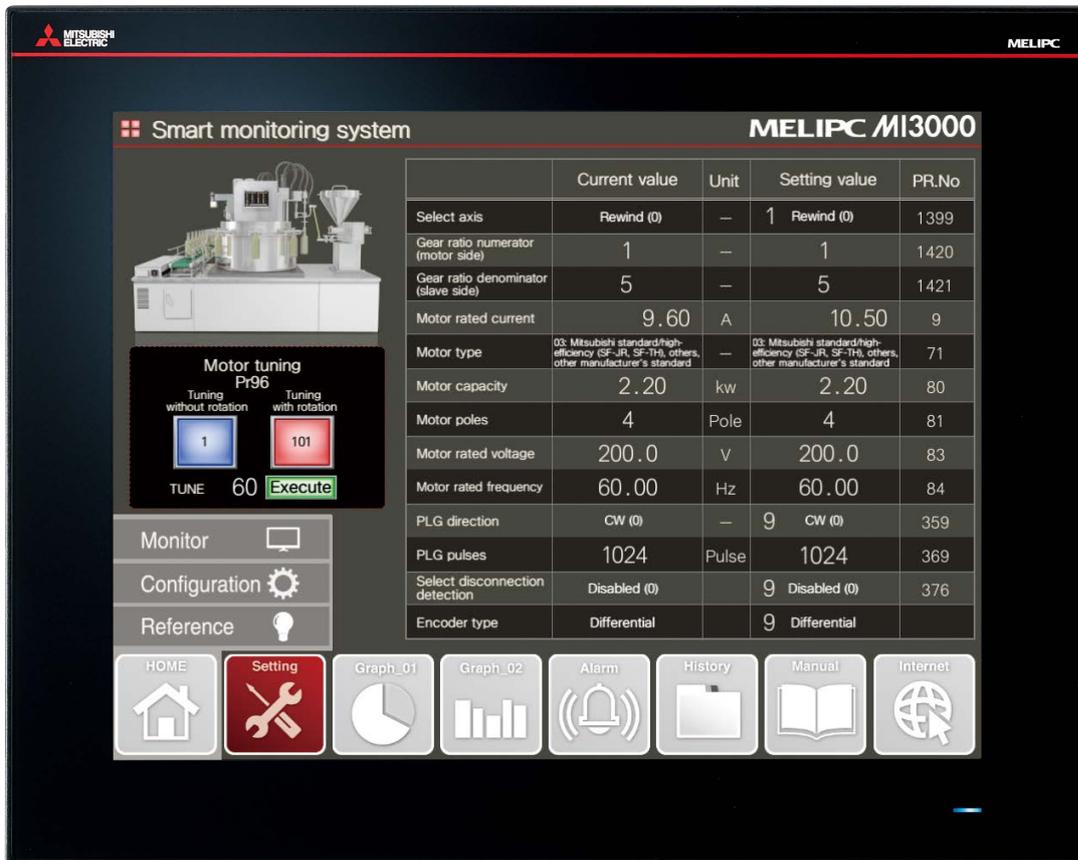
15" XGA

	MI3315G-W	MI3321G-W
OS	Windows® 10 IoT Enterprise 2016 LTSB (64 bit)	
MPU	Intel® Core™ i3-6100U 2.30 GHz (Dual Core)	
Screen size	15"	21.5" widescreen
Resolution	XGA: 1024 × 768 dots	Full HD: 1920 × 1080 dots
Display color	16.77 million	
Touch panel type	PCAP (Projected Capacitive)	
Main memory	8 GB	
Internal storage	64 GB	

MELIPC MI3000

t monitoring system

ne 1

Palletizing
Filling/CIP
Labeling
Brewing
Capping
Inspection

Status

Electricity use amount

| Home |
| Operation monitor |
| Alarm list |
| Parameter setting |
| Graph 1 |
| Graph 2 |
| Schedule |
| Manual display |
| Line |
| Line 2 |
| Line 3 |
| Line 4 |

wing | Filling/CIP | Capping | Labeling | Inspection | Palletizing

Alarm status
Occurred   Comment   Restored   Checked
19/01/08 18:17 Check initial parameter.   18:17   18:17
19/01/08 18:17   18:17   18:17
19/01/08 18:17   18:17   18:17
19/01/08 18:17   18:17   18:17

Show cursor | Hide cursor | Cursor ↑ | Cursor ↓ | Check all | Check | Delete | Delete all | Detail | Reset | Ladder | Save

Graph 1

Thermometer

Hygrometer

21.5" widescreen, Full HD

MI3000 connects shop floors and IT systems in real time as the front-end and the base of your factory

Factories that do not create defects, that do not stop. To make existing factories smarter, demands for applying IoT to shop floors are rapidly increasing. MI3000 utilizes the latest IoT technologies to visualize production activities and collect and analyze big data of manufacturing, thus increasing productivity and ensuring and improving products quality.

MELIPC

MI3000

GT SoftGOT2000

System configuration

Specifications

Product list

Support

MELIPC

MI3000

GT SoftGOT2000

System configuration

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Product list

Support

MI3000 features

High resolution, large screen display, and equipped with all necessary functions to visualize factories in one body

21.5" widescreen, Full HD

Display colorful images with 16.77 million colors

Beautiful, stunning, large screen monitor offers easy-to-view display and user-friendly operation

MI3000 is equipped with large 21.5-inch widescreen display and a full HD high resolution LCD panel[1]. Collected data can be displayed on the easy-to-view screen and can be operated by touch operations.

[1]. Equipped on MI3321G-W.

PCAP (Projected Capacitive) touch panel

Light-touch operation is realized with a PCAP touch panel that is widely used for smartphones and tablet devices. The touch panel with high transmittance offers clear and high visibility display.

Data analysis/diagnosis/monitoring

Equipped with Intel® Core™ i3 CPU, 8 GB memory, and 64 GB SSD. Simple analysis/diagnosis/monitoring of collected data contributes to improve shop floors.

System expansion according to needs

Equipped with various interfaces, systems can be configured according to the customers' needs.

① **DisplayPort**
Output to an external monitor. Screen can be displayed on a larger monitor.

②③ **PCI Express®/mini PCI Express®**
Expand functions by using an expansion board.

④ **Sound output**
For outputting sound by connecting a speaker with built-in amplifier. To output sound from GT SoftGOT2000, sound files can be created easily with GT Designer3. (See page 10)

⑤⑥ **USB3.0/USB2.0**
Each interface has two ports for connecting to various USB compatible devices.

⑦ **Ethernet**
Various Ethernet compatible devices can be connected to 3 ports. The network in the office can be separated from the one in shop floors to enhance security.

⑧⑨ **RS-232/422/485**
For data collection from existing facilities.

① DisplayPort
② mini PCI Express®
③ PCI Express®
④ Sound output
⑤ USB3.0 × 2
⑥ USB2.0 × 2
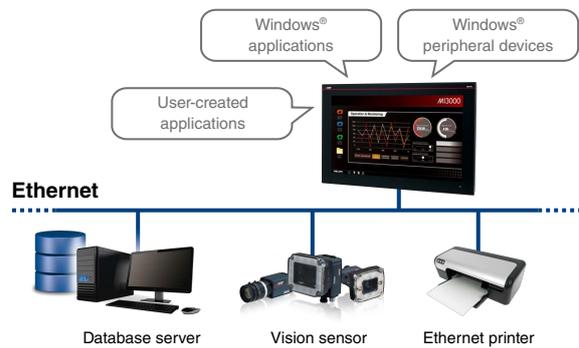⑦ Ethernet × 3
⑧ RS-232
⑨ RS-232/422/485 (switch with BIOS)
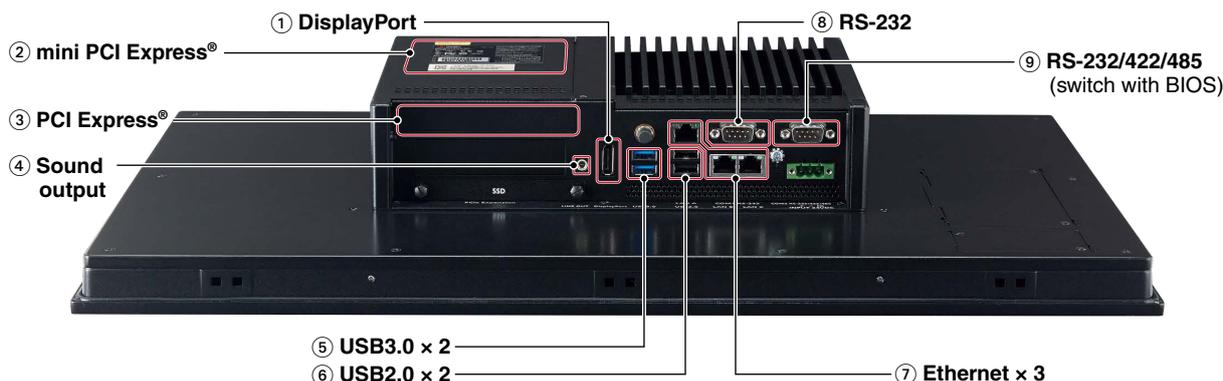
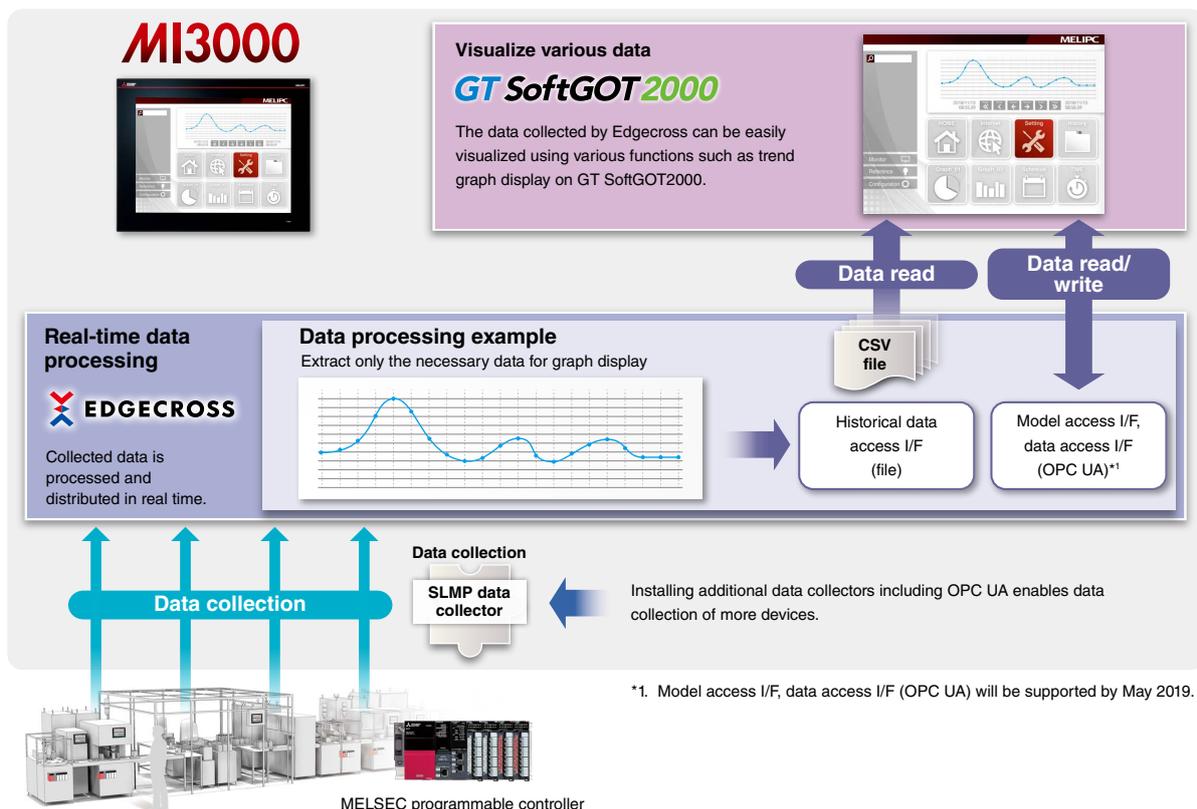# Windows® OS and coordination with Edgecross enable wider usage

Windows® 10 IoT Enterprise pre-installed

Not only familiar Windows® applications, but also user-created applications can be used to configure systems that meet requirements of individual customers.
In addition, long-term support of Windows® 10 IoT Enterprise ensures safe use of facilities and devices with long life cycles.

Windows® applications

Windows® peripheral devices

User-created applications

Ethernet

Database server

Vision sensor

Ethernet printer

Edgecross compatible software pre-installed

Edgecross basic software, SLMP data collector, and GT SoftGOT2000 are pre-installed on MI3000. The data collected by Edgecross, SLMP data collector, and GT SoftGOT2000 can be monitored on the GT SoftGOT2000 screen.

MI3000

Visualize various data

GT SoftGOT 2000

The data collected by Edgecross can be easily visualized using various functions such as trend graph display on GT SoftGOT2000.

Data read

Data read/write

Real-time data processing

EDGECROSS

Collected data is processed and distributed in real time.

Data processing example
Extract only the necessary data for graph display

CSV file

Historical data access I/F (file)

Model access I/F, data access I/F (OPC UA)*1

Data collection

Data collection

SLMP data collector

Installing additional data collectors including OPC UA enables data collection of more devices.

*1. Model access I/F, data access I/F (OPC UA) will be supported by May 2019.

MELSEC programmable controller

MELIPC

MI3000

GT SoftGOT2000

System configuration

Specifications

Product list

Support

MELIPC

MI3000

GT SoftGOT2000

System configuration

Specifications

Product list

Support

Easily visualize shop floors with GT SoftGOT2000

MI3000 with GT SoftGOT 2000

GT SoftGOT2000 pre-installed

GT SoftGOT2000 is pre-installed[1] on MI3000. Various industrial devices can be directly connected[2] and monitored in the same way as GOT2000 Series. The data collected by Edgecross can also be monitored.

Ethernet

MI3000
with GT SoftGOT 2000

Programmable controller

Servo amplifier

Robot

Drive Control (Servo) Interactive Solutions

GOT Drive

Devices of motion controllers, simple motion modules, and MELSERVO-J4 Series servo amplifiers (MR-J4-B) can be monitored. Visualizing servo systems speeds up system startup and adjustment, and improves preventive maintenance and troubleshooting efficiency.
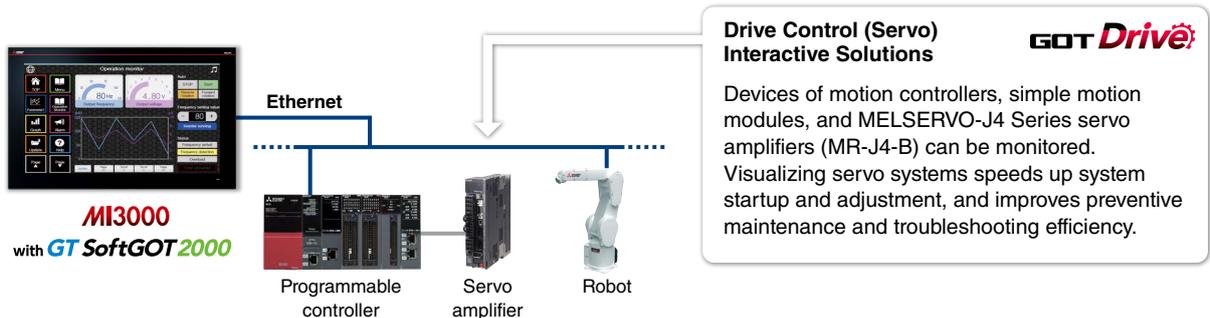
*1. GT SoftGOT2000 license key (for USB port) (sold separately) is not required.

*2. For the connectable model list and supported connection types, please refer to the Graphic Operation Terminal GOT2000 Series Catalog (L(NA)08270ENG), or refer to the GT SoftGOT2000 Version1 Operating Manual by starting up e-Manual Viewer that is pre-installed on MI3000.

Use various functions of GT SoftGOT2000 on a panel computer

Alarm display

GT SoftGOT2000 displays communication errors (system alarms) of controllers and user-created alarms (user alarms).

Step1 Line "A" stops

Step2 Device "A" error

Line A

Line B

Shop floor

Step3 Tank 1 out of material

Step4 Troubleshooting
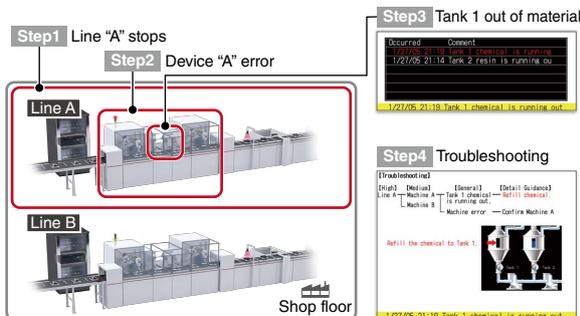
Operation log

GT SoftGOT2000 records the operation information, such as "what, when, and how" of an operation performed, in chronological order in a USB memory.

Operation log list

Detailed information

Check the brief information of the log

For more details

Check the detailed information of the log
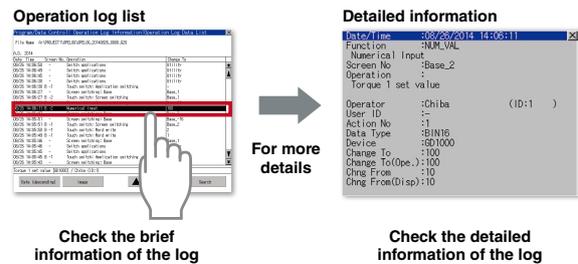
Logging & Graph/List

GT SoftGOT2000 collects the data from programmable controllers and other devices and displays the collected data in a historical trend graph and list.

Temperature

Product quantity

Setting value, etc.

Graph display

List display

GT SoftGOT2000 logs the data
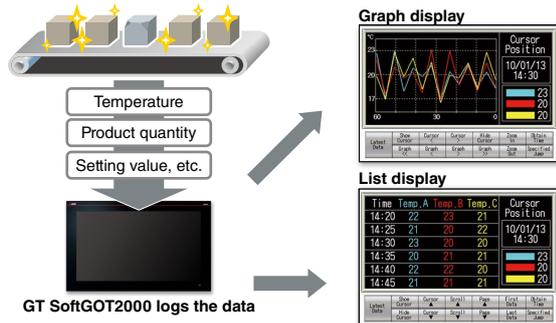
Recipe

GT SoftGOT2000 saves the recipe information (device values) such as material blend and machine conditions. You can change the recipe on the GT SoftGOT2000 and write it to a programmable controller to quickly perform the changeover.

Beef curry

Chicken curry

Seafood curry

Start

		D2000	D2001	D2002
Record 1	Beef curry	300	0	0
Record 2	Chicken curry	0	300	0
Record 3	Seafood curry	0	0	150

MELIPC
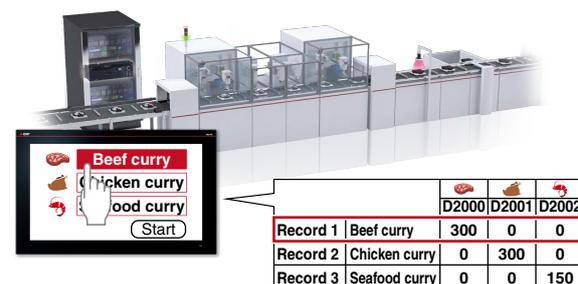
Multi-channel — To be supported by May 2019

Up to four channels of industrial devices can be monitored via Ethernet on a single module of GT SoftGOT2000. With this function, you can flexibly configure systems and visually check devices.

MI3000 with GT SoftGOT2000

Ethernet

Third-party company programmable controller A | Third-party company programmable controller B | Third-party company programmable controller C | Mitsubishi Electric programmable controller
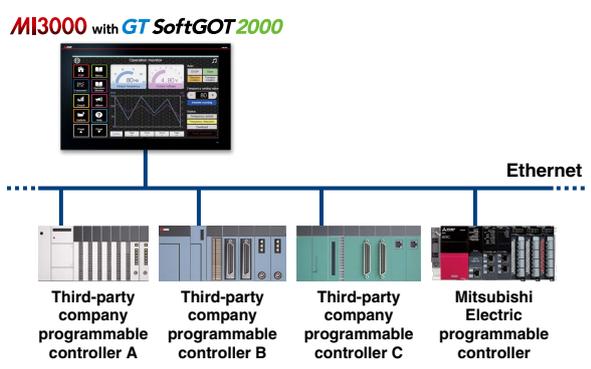
Operability

Not only touch operations, but also long-press operations*1 can be used. Enabling momentary action and ON-delay of touch switches ensures safe operation and improves operability.

*1. Long-press operations will be supported by May 2019.

MI3000

Interaction with GOT2000

GT SoftGOT2000 allows monitoring of devices connected via Ethernet using the project data that is read from GOT at a shop floor. GT SoftGOT2000 and the GOT can display different screens. Since the project data dedicated for GT SoftGOT2000 is not required, you can quickly start remote monitoring. (SoftGOT-GOT link function)

MI3000 with GT SoftGOT2000

2. Monitor devices using the project data read from GOT

Ethernet

1. Read project data

GOT2000 | Programmable controller
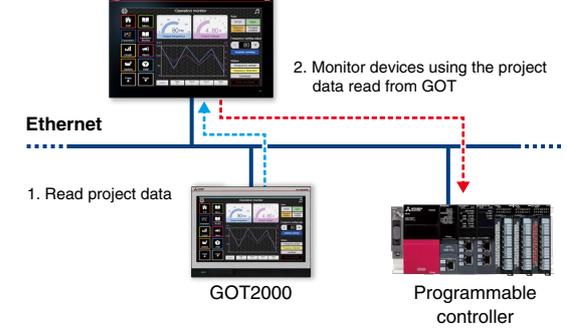
Interaction with Windows® applications

By creating a touch switch on the GT SoftGOT2000 screen, it is possible to start other applications (such as Microsoft® Excel®) while monitoring with GT SoftGOT2000. Interaction with Windows® applications makes it possible to build advanced and flexible systems.
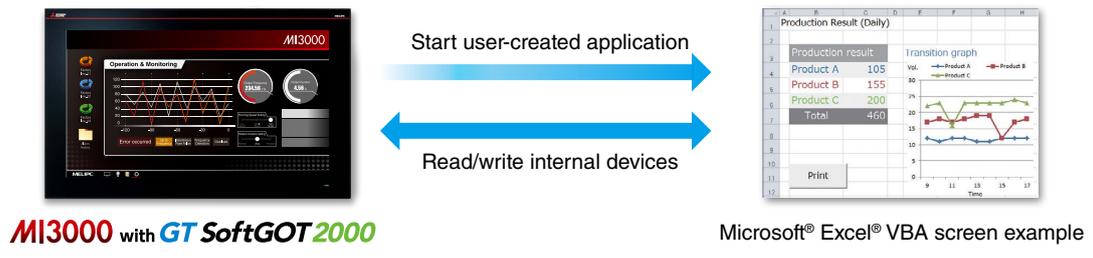
MI3000 with GT SoftGOT2000

Start user-created application

Read/write internal devices

Microsoft® Excel® VBA screen example

Production Result (Daily)

MELIPC | MI3000 | GT SoftGOT2000 | System configuration | Specifications | Product list | Support

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MI3000 with GT SoftGOT 2000

MELIPC

MI3000

GT SoftGOT2000

System configuration

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Support

OPC UA client support for data collection and monitoring of various devices To be supported by May 2019

GT SoftGOT2000 accesses an OPC UA server as an OPC UA client. Since GT SoftGOT2000 collects data via the OPC UA server, various devices can be monitored even if connection to the devices are not supported by GT SoftGOT2000.

Office
- IT system
- OPC UA server
- Directly interact with IT system
- MI3000 with GT SoftGOT 2000
- OPC UA client

Shop floor
- Third-party company programmable controller
- Third-party company RFID
- Third-party company robot controller
- OPC UA server
- Collect data from devices via OPC UA server
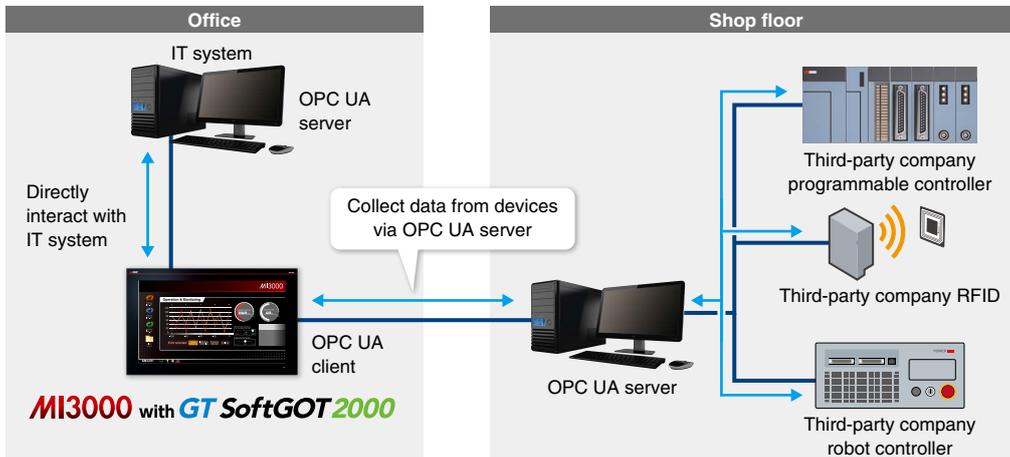
OPC UA (OLE for Process Control Unified Architecture):
a highly reliable, open international standard for industrial communication that enables data exchange among devices from multiple vendors on different operating systems.

Easily create project data

Creating screens is easy

The display screen is created with GT Designer3. By converting the GOT type to MI3000, the project data for GOT2000 can be used as is. Ready to use sample screens are also available.

Reuse project data

GOT2000 → MI3000 with GT SoftGOT 2000

Sound files can be created easily

Sound files for notification can be created easily with GT Designer3. Just enter text in GT Designer3 to create a sound file of a message. In addition to messages, sound effects and melodies are included. Three types of sound files can be combined to make effective audio guidance.
(Speech synthesis function*1)

*1. GT Works Text to Speech License (SW1DND-GTVO-M) is required separately.

Image of creating a message

Create New Sound File

File No.:	1
Type:	Message
Speaker:	English (female)
Speed:	100	(Slow 50-400 Fast, Normal: 100)
Pitch:	100	(Low 50-200 High, Normal: 100)
Volume:	300	(Small 1-500 Large, Normal: 300)
Message:	An error occurred.

Select language and speaker (male/female)

Playback and check the sound   Enter an arbitrary message

An error occurred.

Supported languages of messages

Male	Japanese	English	Chinese (Simplified)		Korean	Spanish

Female	Japanese	English	Chinese (Simplified)	Chinese (Traditional)	Korean	Spanish

Playable sound file types

Message	Sound effect	Melody
Create from arbitrary text	More than 50 files are included	More than 10 files are included

System configuration

Utilization of pre-installed Edgecross basic software and SLMP data collector enables real-time monitoring of shop floor data and realizes coordination with IT systems. In addition, collected data is easily visualized with GT SoftGOT2000.

Office

IT system

Cloud

Ethernet

MI3000 **Edge computing**

Collected data is primarily processed and transferred to the IT system. The processed data can be checked on the screen, and can also be analyzed by installing additional software.

Ethernet

Shop floor

MELSEC iQ-R Series

MELSEC iQ-R Series

Third-party company programmable controller

CC-Link IE

Ethernet

Robot

GOT (HMI)

Servo amplifier

Inverter

Third-party company sensor

Third-party company robot

Ethernet

MI3000 **Operation panel**

Usable as an operation terminal at the shop floor.

MELSEC iQ-R Series

MELSEC iQ-R Series

ASLINKER + general-purpose sensor

Ethernet

MELSEC iQ-F Series

GOT2000

BOX data logger

Servo amplifier

Inverter

Ethernet printer

MELIPC

MI3000

GT SoftGOT2000

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■ MELIPC MI3000 specifications

General specifications

Item		Specifications	
		MI3321G-W	MI3315G-W
Operating ambient temperature (°C)		0...55	
Storage ambient temperature (°C)		-20...60	
Operating ambient humidity		10...90% RH, non-condensing	
Storage ambient humidity			
Vibration resistance	Random vibration	Compliant with IEC60068-2-64, 5...500Hz, one hour in direction X, Y, Z each	
		3 Grms	
Shock resistance		Compliant with IEC-60068-2-27, 10 G, half sine wave, 11 msec	
Operating atmosphere		No corrosive gases, no flammable gases, no excessive conductive dust, no direct sunlight (as well as at storage)	
Operating altitude*3*4		—	
Installation location		Inside the control panel	
Overvoltage category*1		≤ II	
Pollution degree*2		≤ 2	
Cooling method		Self-cooling (fan-less)	
Grounding		Grounding with a ground resistance of 100 Ω or less by using a ground cable that has a cross-sectional area of 2 mm^2 or more.	

*1. This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the rated voltage of 300 V is 2500 V.
*2. This index indicates the degree to which conductive material is generated in terms of the environment in which the equipment is used. Pollution level 2 is when only non-conductive pollution occurs. A temporary conductivity caused by condensing must be expected occasionally.
*3. Do not use nor store the product under pressure higher than the atmospheric pressure of altitude 0 m. Doing so may cause malfunction.
*4. No limitations to altitude. When used at a high altitude, the upper limits of the permissible voltage and the operating ambient temperature become lower. Please check performance before use at the customer side.

Performance specifications

Item	Specifications	
	MI3321G-W	MI3315G-W
Hardware		
MPU	Intel® Core™ i3-6100U 2.30GHz (Dual Core)	
Main memory (byte)	8G	
Internal storage capacity (byte)	64G	
Battery replacement	Not replaceable*2	
Battery life	4 years	
Extended storage interface	M.2 (2280) SATA SSD x 1	
Software		
OS	Windows® 10 IoT Enterprise 2016 LTSB (64 bit)	
System language	At initial startup: English	
Display interface (for external monitor output)		
Interface	DisplayPort 1.4 x 1	
Resolution*1	Max. 3840 x 2160	
Extended slot		
PCI Express®	x1 slot, (half size) x 1	
mini PCI Express®	Full size x 2	
PCI	—	
Ethernet (RJ-45)		
Interface	10BASE-T/100BASE-TX/1000BASE-T	
Number of channels	3	
RS-232 (D-sub 9-pin (male))		
Number of channels	2 (RS-422/485 can also be used for one of the two channels*3)	
Transmission rate (bps)	300...115200	
RS-422 (D-sub 9-pin (male))		
Number of channels	1 (RS-232/485 can also be used*3)	
Transmission rate (bps)	300...115200	
RS-485 (D-sub 9-pin (male))		
Number of channels	1 (RS-232/422 can also be used*3)	
Transmission rate (bps)	300...115200	
USB (USB Type-A)		
USB3.0	2	
USB2.0	2	
Sound output (φ3.5 mini-jack (3-prong))		
Interface	Audio Line-Out	
Number of ports	1	
Others		
Built-in clock precision	Daily difference: -2 seconds to +2 seconds Monthly difference: -60 seconds to +60 seconds	
Safety standards, radio laws (as of February 2019)	CE, UL, cUL, KC, BSMI, CCC, FCC	
External dimensions (H x W x D)	349.8 x 558.4 x 88.8 mm (13.77 x 21.98 x 3.50 inch)	307.3 x 383.2 x 86 mm (12.10 x 15.09 x 3.39 inch)
Panel cutting dimensions (H x W)	341.8 x 550.3 mm (13.46 x 21.67 inch)	298.5 x 374.5 mm (11.75 x 14.74 inch)
Weight	9.8 kg (21.6 lb)	7.0 kg (15.4 lb)

*1. Maximum resolution at 60 Hz.
*2. The battery cannot be removed by users. For the battery replacement, please consult your local sales office.
*3. The interface can be switched between RS-232, RS-422, and RS-485 with the BIOS.

Display specifications

Item	Specifications	
	MI3321G-W	**MI3315G-W**
Display specifications		
Display device[1][2]	TFT color LCD	
Screen size	21.5" widescreen	15"
Resolution (dots)	Full HD: 1920 x 1080	XGA: 1024 x 768
Display colors	16.77 million	
Contrast ratio	5000:1	700:1
Backlight specification	LED backlight (not replaceable)	
Life	50,000 hours	
Touch panel		
Type	PCAP (Projected Capacitive)	
Simultaneous press	Max. 10 keys[3]	
Transmittance	90%±3%	
Others		
POWER LED	2 colors (blue and orange)	
Environmental protective structure	IP66 (front face)	

[1]. As a characteristic of liquid crystal display panels, bright dots (always lit) and dark dots (never lit) may appear on the panel. Since liquid crystal display panels comprise a great number of display elements, the appearance of bright and dark dots cannot be reduced to zero. Individual differences in liquid crystal display panels may cause differences in color, uneven brightness and flickering. Note that these phenomena are characteristics of liquid crystal display panels and it does not mean the products are defective or damaged
[2]. Flickering may occur due to vibration, shock, or the display colors.
[3]. Multiple touch keys cannot be pressed simultaneously while GT SoftGOT2000 is used.

Power supply specifications

Item		Specifications	
		MI3321G-W	**MI3315G-W**
Power supply voltage		24 V DC (+20%, -20%)	
Power consumption	Under the maximum load	90 W	
	Stand alone	27 W	
Applicable wire size		Single wiring (single wire, stranded wire): 0.2 to 2.5 mm^2 (AWG24 to AWG14) Rod terminal with an insulation sleeve: 0.25 to 2.5 mm^2 (AWG22 to AWG14) Double wiring (single wire, stranded wire): 0.2 to 1.5 mm^2 (AWG24 to AWG16)	
Applicable solderless terminal		DN00508D (AWG20), DN00708D (AWG18), DN01508D (AWG16) (manufactured by DINKLE) Crimp tool: DNT13-0101 (manufactured by DINKLE)	
Applicable tightening torque (for terminal block terminal screws)		0.20 N·m (M2.5)	

GT SoftGOT2000 (pre-installed software) specifications

Item	Specifications
Resolution	640 to 1920 x 480 to 1200
Display color	65536 colors
Display language	At initial startup: English[2]
Connection type[1]	Ethernet connection, direct CPU connection, serial communication connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, MELSECNET connection

[1]. Required devices vary depending on the connection type. For the details, please refer to the GT SoftGOT2000 Version1 Operating Manual.
[2]. By switching display languages, Japanese and Chinese (Simplified) can be displayed. To upgrade the software version, use the English version of the upgrade software.

iQ Edgecross compatible software

■ Edge application

Item	MI3000
Real-time data analyzer	●[1]
GT SoftGOT2000	● (pre-installed)
MC Works64 Edge Computing Edition	●

[1]. Since MI3315G-W does not support the resolution that is recommended by real-time data analyzer, some parts of the screen are not shown on the display.

■ Data collector

Item	MI3000
CC-Link IE Field Network Data Collector (MELIPC MI5122-VW)	—
CC-Link IE Field Network Data Collector[1] Supported soon	●
CC-Link IE Controller Network Data Collector[1] Supported soon	●
SLMP Data Collector	● (pre-installed)
OPC UA Data Collector	●
MTConnect Data Collector	●

[1]. The network interface board by Mitsubishi Electric is required separately.

MELIPC

MI3000

GT SoftGOT2000

System configuration

Specifications

Product list

Support

Panel cutting dimensions

Unit: mm (inch)

Screen size	Model	A	B
21.5" widescreen	MI3312G-W	550.3 (21.67)	341.8 (13.46)
15"	MI3315G-W	374.5 (14.74)	298.5 (11.75)

A ±0.75 (0.03)

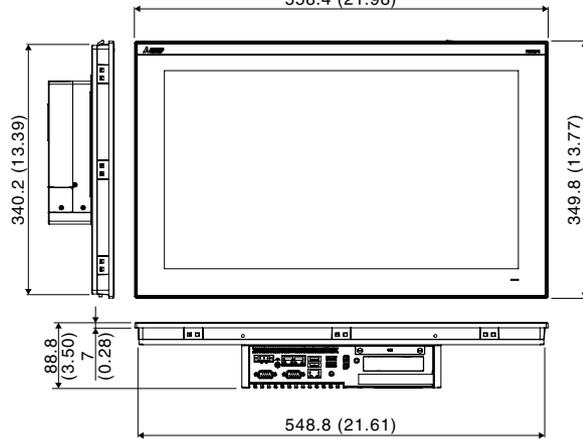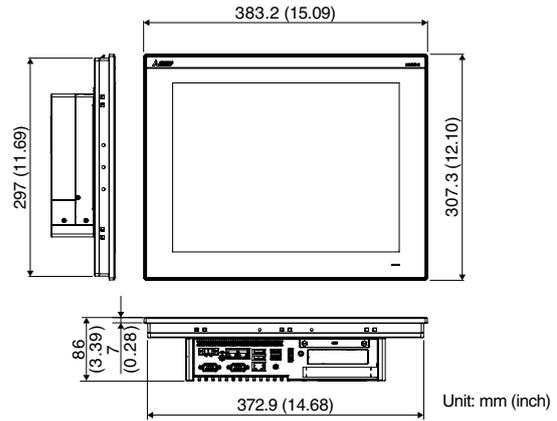B +0 (0) −0.8 (0.03)
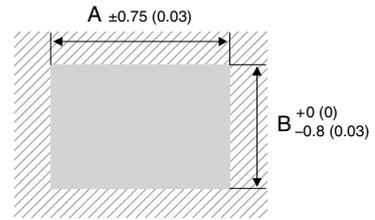
* Panel thickness: 2 to 6 mm (0.08 to 0.24 inch)

External dimensions

MI3321G-W

558.4 (21.98)
340.2 (13.39)
349.8 (13.77)
88.8 (3.50)
7 (0.28)
548.8 (21.61)

MI3315G-W

383.2 (15.09)
297 (11.69)
307.3 (12.10)
86 (3.39)
7 (0.28)
372.9 (14.68)

Unit: mm (inch)

Part names

MI3321G-W

1) 2)
4) 5)
3)
7) 9) 11)
6) 8) 10) 12)
16) 15) 8) 14) 13)

MI3315G-W

1) 2)
4) 5)
3)
7) 9) 11)
6) 8) 10) 12)
16) 15) 8) 14) 13)
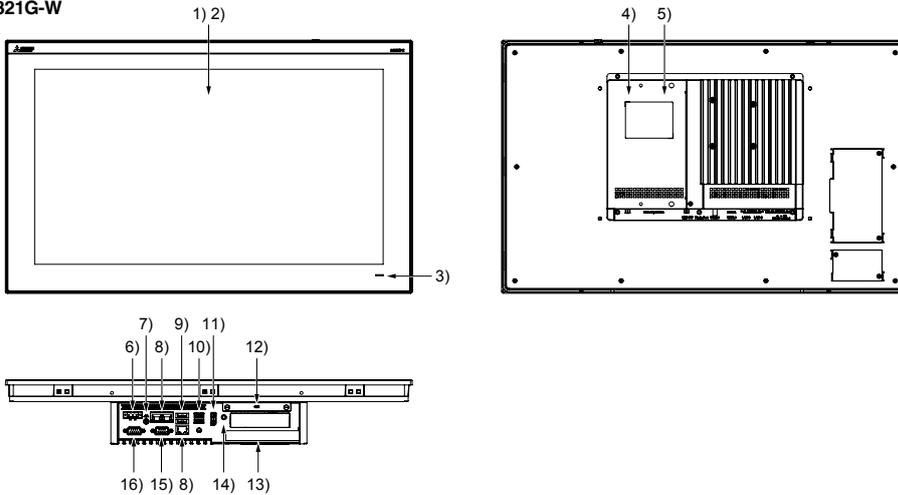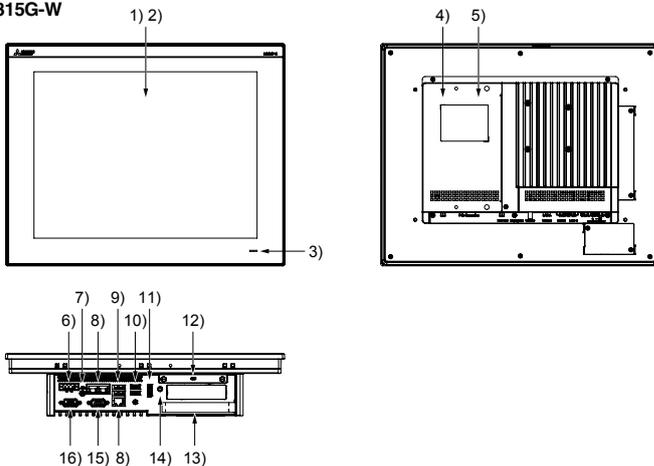
1) Display section
2) Touch panel
3) POWER LED
4) M.2 (2280) SATA interface (inside the cover)
5) mini PCI Express® interface (inside the cover)
6) Power supply terminal
7) Ground terminal
8) Ethernet interface
9) USB2.0 interface
10) USB3.0 interface
11) DisplayPort interface
12) SATA interface
13) PCI Express® interface
14) Sound output interface
15) RS-232 interface
16) RS-232/RS-422/RS-485 interface

MELIPC

MI3000

GT SoftGOT2000

System configuration

Specifications

Product list

Support

■ Product list

MELIPC

Product name	Model	Screen size	Panel color	Outline
MELIPC MI3000	MI3321G-W	21.5" widescreen, Full HD	Black	Edgecross basic software, SLMP data collector, GT SoftGOT2000 pre-installed
	MI3315G-W	15" XGA	Black	

Engineering tool

Product name	Model	Outline	
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	English Version	Standard license product[1]
GT Works Text to Speech License[2]	SW1DND-GTVO-M	Standard license product	

[1]. The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.
[2]. To edit sound files, each personal computer requires one license.

Option

Product name	Model	Outline
Network interface board	Q81BD-J71GF11-T2	PCI Express® bus compatible, CC-Link IE Field Network (master/local station)
	Q81BD-J71GP21-SX	PCI Express® bus compatible, CC-Link IE Controller Network (control/normal station)
	Q81BD-J71GP21S-SX	PCI Express® bus compatible, CC-Link IE Controller Network (control/normal station), with external power supply function

iQ Edgecross

Product name	Model	Outline
Real-time data analyzer[1]	SW1DND-RDA-MQ12	One year subscription license, DVD included
	SW1DND-RDA-MZQ12	One year subscription license

[1]. For the details, please refer to the Industrial Computer MELIPC Series catalog (L(NA)08578ENG). This product can be used when one year subscription license is purchased. Please consult your local Mitsubishi Electric representative, if other license agreement is required.

■ Related materials

Industrial Computer MELIPC Series

L(NA)08578ENG

Graphic Operation Terminal GOT2000 Series

L(NA)08270ENG

MELIPC

MI3000

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System configuration

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Product list
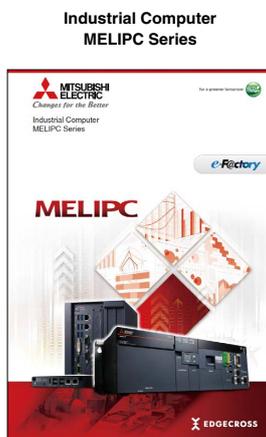
Support

Extensive global support coverage providing expert help whenever needed

■ **Global FA centers**

MITSUBISHI ELECTRIC CORPORATION

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Factory Automation Global website

Mitsubishi Electric Factory Automation provides a mix of services to support its customers worldwide. A consolidated global website is the main portal, offering a selection of support tools and a window to its local Mitsubishi Electric sales and support network.

■ **From here you can find:**

• Overview of available factory automation products
• Library of downloadable literature
• Support tools such as online e-learning courses, terminology dictionary, etc.
• Global sales and service network portal
• Latest news related to Mitsubishi Electric factory automation

Mitsubishi Electric Factory Automation Global website:

www.MitsubishiElectric.com/fa
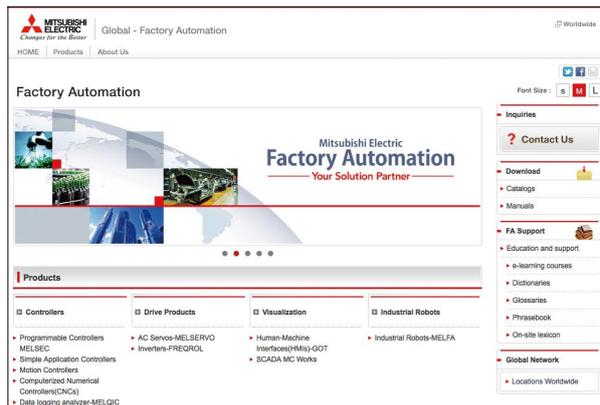
Online e-learning

An extensive library of e-learning courses covering the factory automation product range has been prepared. Courses from beginner to advanced levels of difficulty are available in various languages.
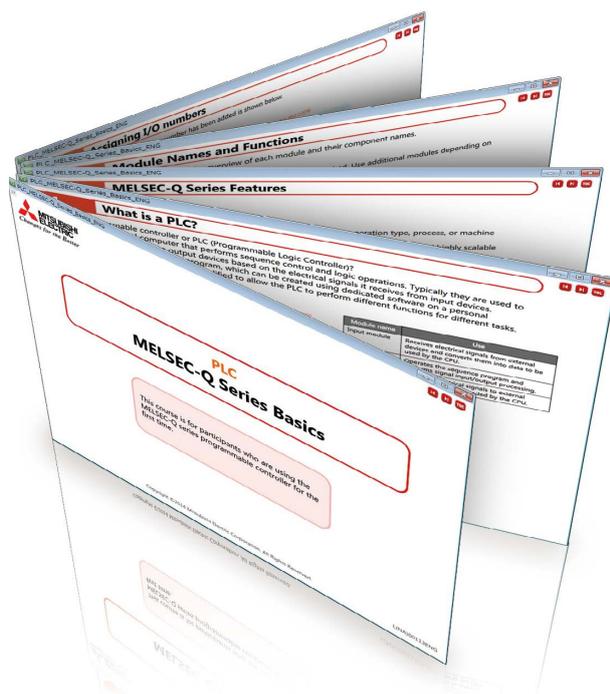

■ **Beginner level**

Designed for newcomers to Mitsubishi Electric Factory Automation products gaining a background of the fundamentals and an overview of various products related to the course.

■ **Basic to Advanced levels**

These courses are designed to provide education at all levels. Various different features are explained with application examples providing an easy and informative resource for in-house company training.

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Support

Innovative next-generation, e-Manual

The e-Manual viewer is a next-generation digital manual offered by Mitsubishi Electric that consolidates all manuals into an easy-to-use package with various useful features integrated into the viewer. The e-Manual is modeled around a centralized database allowing multiple manuals to be cross-searched at once, further reducing the time for reading individual product manuals when setting up a control system.

Search by keywords

Database

Search result
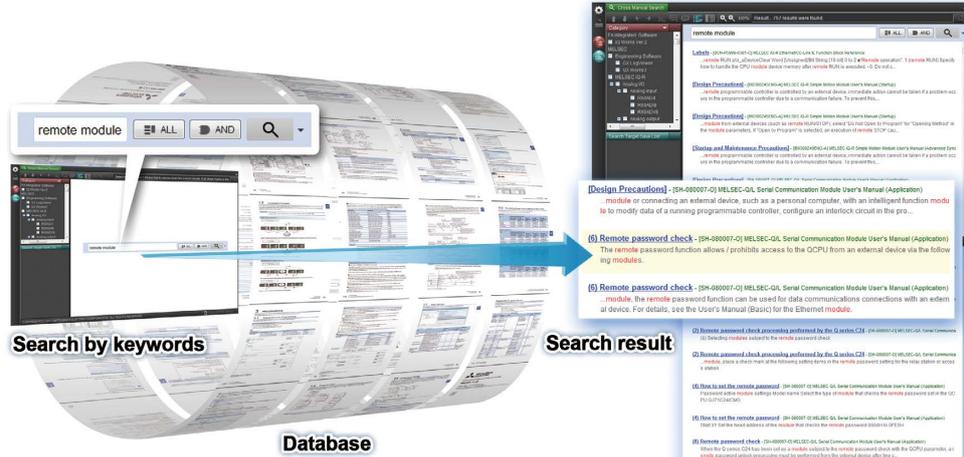
■ Key features include

• One-stop database containing all required manuals, with local file cache
• Included with GX Works3 engineering software
• Also available in tablet version
• Easily download manuals all at once
• Automatic update of manual versions
• Search information across multiple manuals
• Visual navigation from hardware diagram showing various specifications
• Customizable by adding user notes and bookmarks
• Directly port sample programs within manuals to GX Works3

■ MITSUBISHI ELECTRIC FA e-Manual (tablet version)

The e-Manual application is available on iOS and Android™ tablets.
e-Manual files are provided as in-app downloads.

iOS
Version 8.1 or later
Download on the App Store

Android™
Version 4.3/4.4/5.0
GET IT ON Google Play

■ Supported versions

OS	OS version	Model
iOS	iOS 8.1 or later	Apple iPad 2, iPad (3rd generation), iPad (4th generation), iPad Air, iPad Air 2, iPad mini, iPad mini 2, iPad mini 3, iPad mini 4, iPad Pro (12.9 inch), iPad Pro (9.7 inch)
Android™	Android™ 4.3/4.4/5.0	ASUS Nexus7™ (2013)*1

*1. When using a tablet not listed above, 7-inch (resolution of 1920 x 1200 dots (WUXGA) or better is recommended.

Precautions before use

This publication explains the typical features and functions of the products herein and does not provide restrictions or other information related to usage and module combinations. Before using the products, always read the product user manuals. Mitsubishi Electric will not be held liable for damage caused by factors found not to be the cause of Mitsubishi Electric; opportunity loss or lost profits caused by faults in Mitsubishi Electric products; damage, secondary damage, or accident compensation, whether foreseeable or not, caused by special factors; damage to products other than Mitsubishi Electric products; or any other duties.

⚠ For safe use

- To use the products given in this publication properly, always read the relevant manuals before beginning operation.
- The products have been manufactured as general-purpose parts for general industries, and are not designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the products for special purposes such as nuclear power, electric power, aerospace, medicine or passenger-carrying vehicles, consult with Mitsubishi Electric.
- The products have been manufactured under strict quality control. However, when installing the products where major accidents or losses could occur if the products fail, install appropriate backup or fail-safe functions in the system.

MELIPC MI3000

MITSUBISHI ELECTRIC CORPORATION

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Mexico ················+52-55-3067-7511	Thailand ···············+66-2682-6522 to 31	UK ·························+44-1707-28-8780	Poland ·················+48-12-347-65-00
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