



for a greener tomorrow



**MITSUBISHI  
ELECTRIC**

*Changes for the Better*

FACTORY AUTOMATION

**e-Factory**

# GT SoftGOT2000 Solutions

MELSOFT **iQ** Edgecross



## GT SoftGOT2000

Make visualization of production accessible



**EDGECROSS**

# GLOBAL IMPACT OF MITSUBISHI ELECTRIC



Through Mitsubishi Electric's vision, "Changes for the Better" are possible for a brighter future.

## ***Changes for the Better***

We bring together the best minds to create the best technologies. At Mitsubishi Electric, we understand that technology is the driving force of change in our lives. By bringing greater comfort to daily life, maximizing the efficiency of businesses and keeping things running across society, we integrate technology and innovation to bring changes for the better.

Mitsubishi Electric is involved in many areas including the following:

### **Energy and Electric Systems**

A wide range of power and electrical products from generators to large-scale displays.

### **Electronic Devices**

A wide portfolio of cutting-edge semiconductor devices for systems and products.

### **Home Appliance**

Dependable consumer products like air conditioners and home entertainment systems.

### **Information and Communication Systems**

Commercial and consumer-centric equipment, products and systems.

### **Industrial Automation Systems**

Maximizing productivity and efficiency with cutting-edge automation technology.

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**GT SoftGOT2000**

# GT SoftGOT2000

GT SoftGOT2000 is the HMI software that runs on personal computers and panel computers. It can be used to monitor and operate the information of industrial devices that are connected to a personal computer or a panel computer via a network.

\* GT SoftGOT2000 is a software included in GT Works3. A separate license key (GT27-SGTKEY-U) must be installed during use. For the details, please contact your local sales office.



GT SoftGOT2000  
license key (for USB port)

Install on a personal computer

GT SoftGOT2000

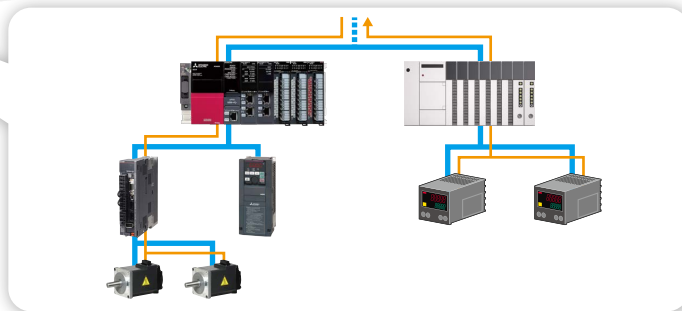


Remote  
monitoring

Convenient  
operation  
panel

Notify  
operation  
status

Simple  
analysis



Monitor the shop floor from a remote location by monitoring and operating the information of various industrial devices.



## As a remote monitoring tool from your office

Various information of the shop floor can be checked on a personal computer in your office. By making settings with HMI/GOT Screen Design Software GT Works3, necessary information can be checked easily.



Remote monitoring

## As the operation panel of devices

GT SoftGOT2000 can be used as the operation panel providing operation and monitoring of various industrial devices. In addition, by launching applications compatible with Windows® OS (such as Microsoft® Excel®), the work that you used to do with your computer can be integrated.

Mitsubishi Electric panel computer MI3000 is available for easy setup since GT SoftGOT2000 is pre-installed on the terminal.

▶ For the details of MI3000, see page 20.



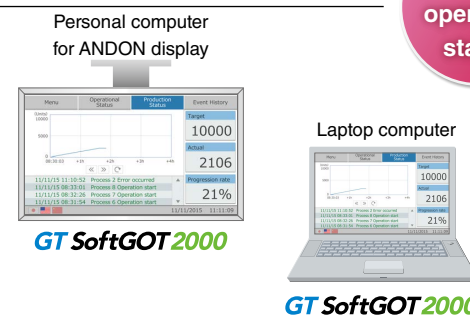
Convenient operation panel

## As a tool to notify operators of necessary information

The resolution can be set flexibly. By using a large display or a laptop computer, ANDON display and simple remote monitoring can be performed so that operators in a remote location can be notified of the operation status.

### Supported resolution

X × Y: 640 to 1920 dots × 480 to 1200 dots



Notify operation status

## For edge computing purposes

Supporting Edgexcross, which is the open software platform in Japan in the edge computing field that coordinates factory automation and IT systems. Edgexcross interaction function easily visualizes the data collected and processed by Edgexcross.



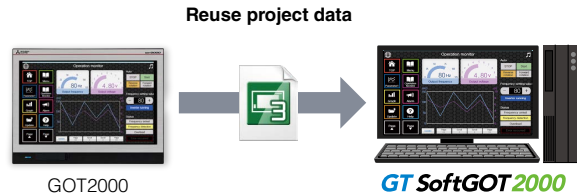
Simple analysis

# GT SoftGOT2000 Features

## High affinity with GOT2000 Series

Functions equivalent to the GOT2000 Series can be used in GT SoftGOT2000. The project data created with HMI/GOT Screen Design Software GT Works3 can be used by converting it into the GT SoftGOT2000 data.

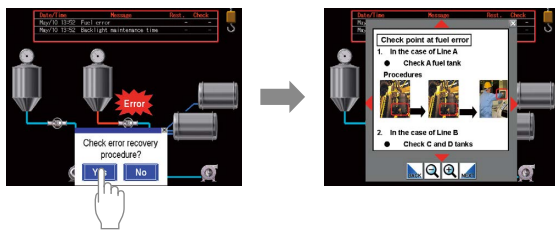
▶ For the supported functions, see "Function List" on page 19.



### Document display

GT SoftGOT2000 displays various kinds of documents such as operation manuals<sup>\*1</sup> of an equipment. You can view PDF files and can instantly check the information you want with bookmark display and keyword searches.

\*1 The document display data should be saved on a virtual drive. PDF files and Document Converter output files (docx, xlsx, pptx, pdf, jpg, bmp) are supported.



### Recipe

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

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

MI3000 with GT SoftGOT2000

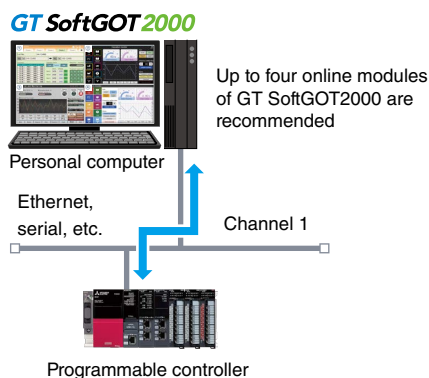
▶ For the details of other functions, see page 15.

## System configurations

GT SoftGOT2000 can be used in single channel connection that monitors one channel and in multi-channel connection that enables monitoring of up to four channels of industrial devices. Select the connection type to match your system configuration.

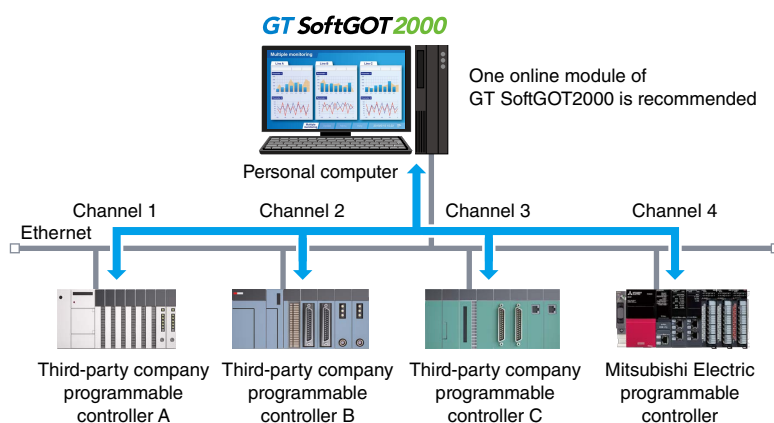
### Single channel connection (GT SoftGOT2000)

Connectable in all communication types that are supported by GT SoftGOT2000.



### Multi-channel connection (GT SoftGOT2000 (Multi-channel)) **NEW**

Multi-channel connection is supported in Ethernet connection, connection with OPC UA servers, and microcomputer connection only. Up to four channels of industrial devices can be monitored on a single module of GT SoftGOT2000.



See the following page for solutions that utilize various GT SoftGOT2000 functions 

### Connectable to various industrial devices

Various connection types are supported as follows.\*1

#### Connection types

Ethernet connection  
Direct CPU connection  
Serial communication connection  
CC-Link IE Controller Network connection\*2

CC-Link IE Field Network connection\*2  
MELSECNET/H, MELSECNET/10 connection\*2  
MODBUS®/TCP master connection  
MODBUS®/TCP slave connection

SLMP connection  
OPC UA client connection **NEW**  
Microcomputer connection (serial) **NEW**

#### Connectable devices

Mitsubishi Electric programmable controller  
OMRON programmable controller  
KEYENCE programmable controller  
SIEMENS programmable controller

TOSHIBA programmable controller  
YASKAWA programmable controller  
Yokogawa electric programmable controller  
Mitsubishi Electric industrial computer

Servo amplifier  
Robot controller  
CNC  
RFID/barcode reader

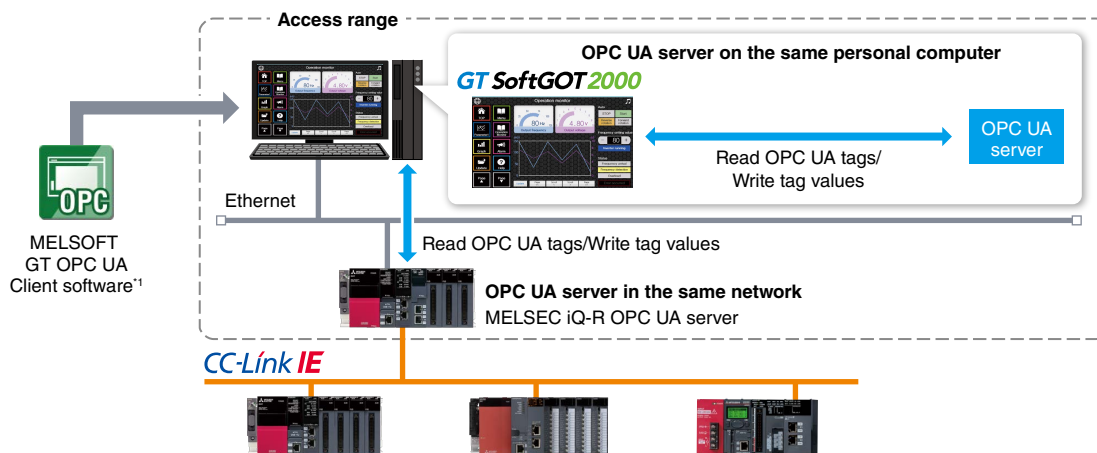
\*1 Supported connection type differs depending on the system configuration (multi-channel connection or single channel connection). For the details, please refer to the "GT SoftGOT2000 Connectable Model List" on page 22 or the GT SoftGOT2000 Version1 Operating Manual.

\*2 A network interface board is required.

### Connectable to OPC UA servers **NEW**

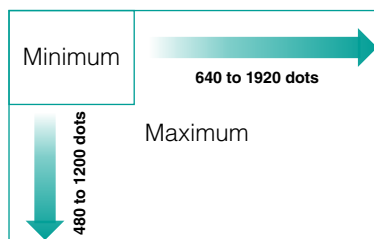
GT SoftGOT2000 accesses an OPC UA server as an OPC UA client.\*1

\*1 To connect to OPC UA servers, installation of MELSOFT GT OPC UA Client software is required. To connect to OPC UA clients, use Windows®7 OS or later. For more information about how to obtain the software, please contact your local sales office.



### Flexible resolution setting

The users can flexibly specify resolutions to change the screen size depending on the information device to use.



# GT SoftGOT2000 Solutions

SoftGOT2000 will provide solutions for production issues

Issues in building systems

GT SoftGOT2000 solves issues

1

Easy connection between a personal computer and industrial devices at the shop floor



Various communication drivers are supported to enable easy connection of industrial devices

P.10 >>>

2

Creating screens easily without excess efforts



Simple operation for beginners enables easy screen creation

P.10 >>>

3

Collectively monitoring programmable controllers of different manufacturers



Programmable controllers from multiple manufacturers can be monitored collectively

P.11 >>>

4

Collectively monitor multiple lines from an office



Multiple lines can be monitored collectively on a single personal computer

P.11 >>>

5

Monitoring the information of on-site GOT as is from office personal computer



The same screens as the on-site GOT can be monitored on a personal computer

P.12 >>>

6

Easily supporting FDA 21 CFR Part 11 of systems



Various functions to support FDA 21 CFR Part 11 are available

P.13 >>>



3

GT SoftGOT2000 Solutions





### Issues in system operation

### GT SoftGOT2000 solves issues

- 7** Improving work efficiency by interacting with applications created by the users  **Data interaction with user-created applications improves work efficiency** **P.14** 
- 8** Quick restoration in case of problem occurrence  **Various maintenance functions can be used for troubleshooting** **P.15** 
- 9** Securing security  **User management with access control and operation log enhances security** **P.15** 


### Issues in IoT solutions

### GT SoftGOT2000 solves issues

- 10** Easy data analysis of the shop floor with IoT solutions  **Edgecorss enables analysis of various data at the shop floor** **P.16** 
- 11** Effective use of the information separately stored in each device  **Easy data collection, visualization, and collective management of data from multiple devices and different manufacturers** **P.17** 

### Issues in system expansion

### GT SoftGOT2000 solves issues

- 12** Data interaction by easily connecting IT systems and the shop floor  **OPC UA enables easy connection with IT systems** **P.18** 
- 13** Easy operation and monitoring of process control  **MELSEC process control monitoring tool enables simple monitoring** **P.18** 

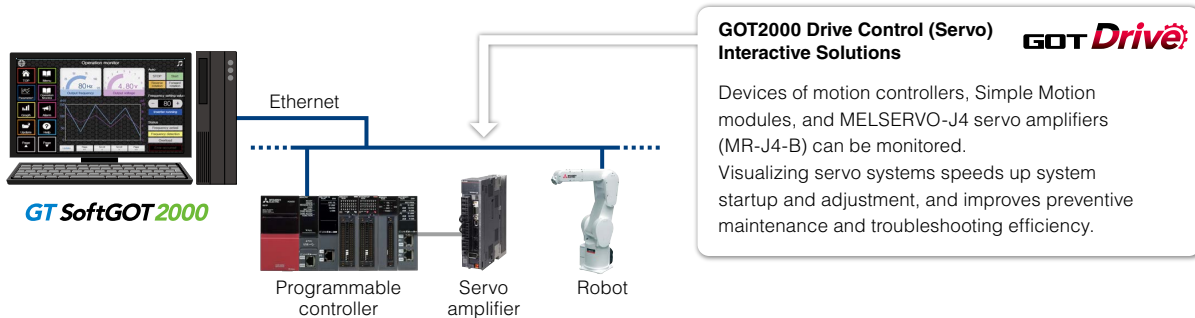
# Solving issues in building systems

## 1 Various communication drivers are supported to enable easy connection of industrial devices

Easy connection between a personal computer and industrial devices at the shop floor

### Various industrial devices data can be monitored

GT SoftGOT2000 has various communication drivers as standard. Just by selecting connection destination in HMI/GOT Screen Design Software GT Works3, industrial devices can be connected.



For the connectable models and connection types, please refer to the "GT SoftGOT2000 Connectable Model List" on page 22.

## 2 Simple operation for beginners enables easy screen creation

Creating screens easily without excess efforts

### HMI/GOT Screen Design Software MELSOFT GT Works3

Using parts is simple. Just select a part and place on the screen! Design your screen with intuitive pick and place operation.

Click the part you want to use

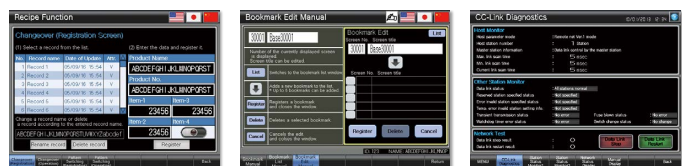
Click anywhere to place the part

Reduce design time by registering frequently used parts to "My Favorites" or "My Library". Import/export is also possible.



### Efficiently create screens with sample screens included in GT Works3

Recommended functions that are often used at shop floor are included in GT Works3 as sample screens. The sample screens of GOT2000 Series can be used for GT SoftGOT2000 just by changing resolution. Since there is no need to create screens from scratch, screen design work can be reduced.



Sample screens [English, Japanese, Chinese (Simplified)]

\* For the details, please contact your local sales office.



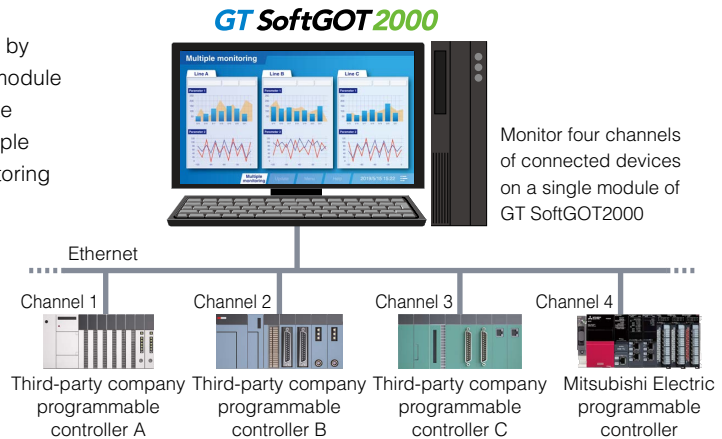
## 3 Programmable controllers from multiple manufacturers can be monitored collectively

Collectively monitoring programmable controllers of different manufacturers

In multi-channel connection (GT SoftGOT2000 (Multi-channel)) only

### Multi-channel connection **NEW**

Up to four channels of industrial devices connected by Ethernet connection can be monitored on a single module of GT SoftGOT2000. Since there is no need to create project for each connected device, monitoring multiple devices on one screen increases efficiency in monitoring work and operation.



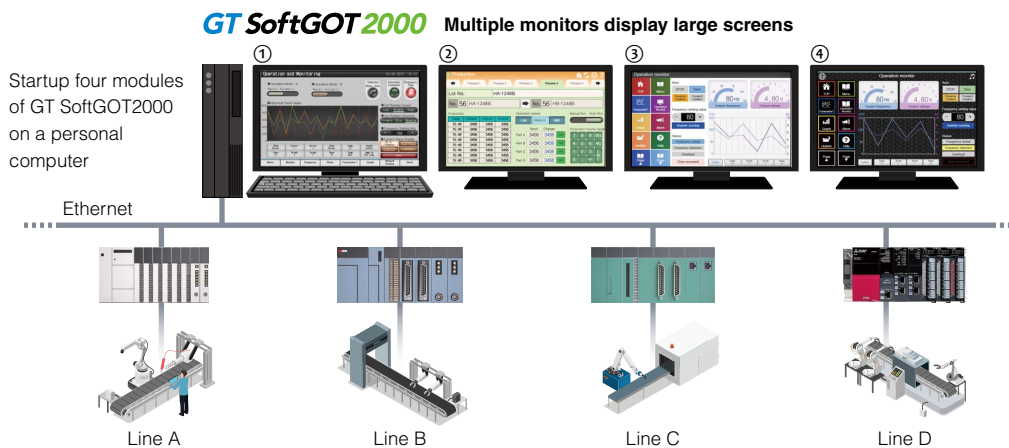
Monitor four channels of connected devices on a single module of GT SoftGOT2000

## 4 Multiple lines can be monitored collectively on a single personal computer

Collectively monitor multiple lines from an office

### Startup multiple modules

Since multiple modules of GT SoftGOT2000 can be started on a single personal computer, multiple lines can be monitored collectively. By displaying the screen on multiple monitors, the contents can be viewed in larger screens.



Startup four modules of GT SoftGOT2000 on a personal computer

GT SoftGOT2000 Multiple monitors display large screens



### Collectively monitor with multi-channel connection **NEW**

In multi-channel connection, multiple lines can be monitored by starting a single module of GT SoftGOT2000 without starting up multiple modules of the software.

## 5 The same screens as the on-site GOT can be monitored on a personal computer

Monitoring the information of on-site GOT as is from office personal computer

In single channel connection (GT SoftGOT2000) only

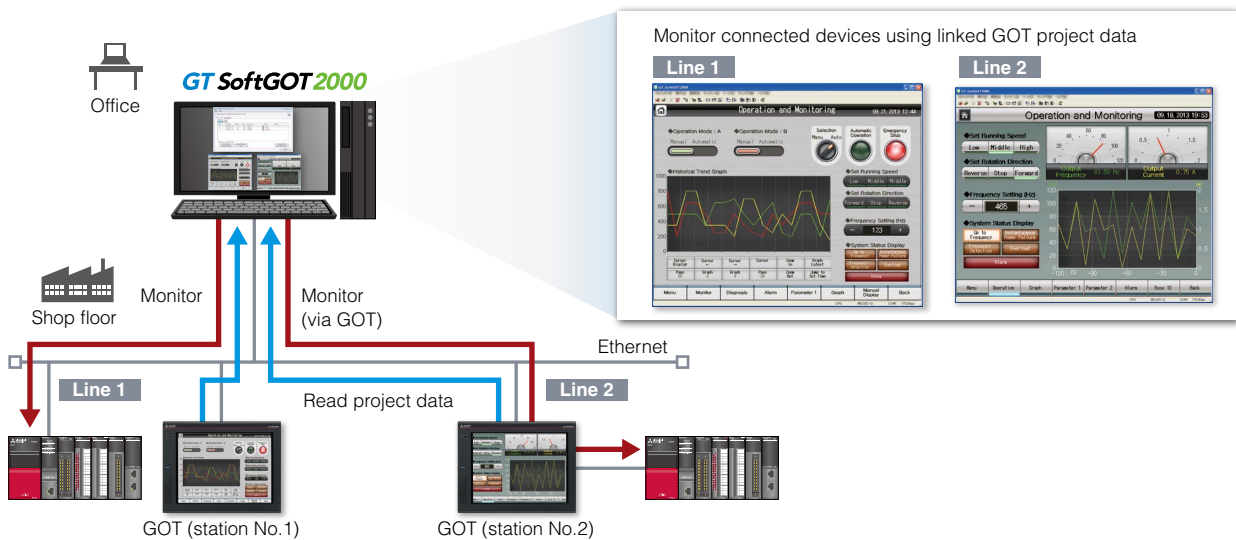
### SoftGOT-GOT link function

If GOT is used at the shop floor, GT SoftGOT2000 reads project data from the GOT via Ethernet, and uses the project data to monitor connected devices.

There is no need create project data dedicated for GT SoftGOT2000 and quick remote monitoring of industrial devices is enabled via Ethernet. Since GT SoftGOT2000 can display a different screen from the one shown on the GOT at the shop floor, monitoring on GT SoftGOT2000 does not affect shop floor operation.

In addition, exclusive control of authorization is provided as standard to prevent simultaneous operations and ensure safe operation.

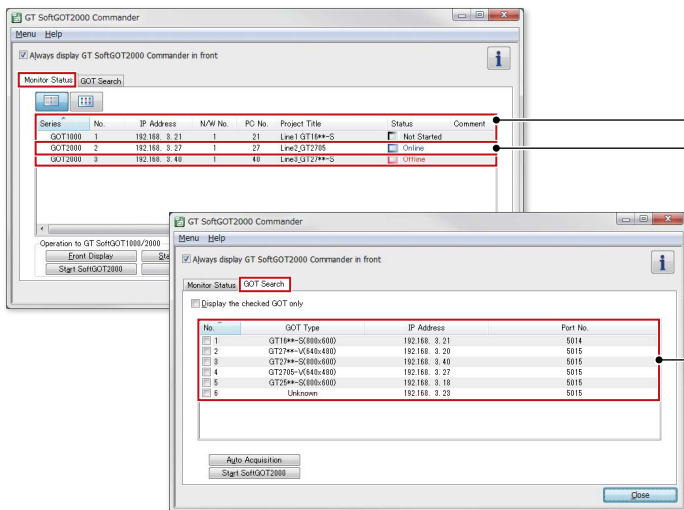
\* SoftGOT-GOT link function is supported by GT27 and GT25. Not supported by GT23 and GT21.



### GT SoftGOT2000 Commander makes monitoring work efficient

When using the SoftGOT-GOT link function, GT SoftGOT2000 Commander can be used to collectively check the monitoring status of GT SoftGOT2000 modules, and start or stop monitoring of the modules.

\* GT SoftGOT2000 Commander is a software included in GT Works3, the same as GT SoftGOT2000.



**Effective usage when there are multiple GOTs that use the SoftGOT-GOT link function**

The list shows which GT SoftGOT2000 module is linked to which GOT, and each monitoring status. Since it is recommended to use up to four modules of GT SoftGOT2000 online simultaneously, after starting up 20 modules of the software, up to four modules can be set online and thus large-scale systems can be monitored efficiently.

**Managing start/stop of monitoring is easy**

Double-click the Comment column of each line to switch between Online and Offline, or between Not started and Online (Offline).

- Online: during monitoring
- Offline: stopped monitoring

**Automatically search for GOTs to monitor**

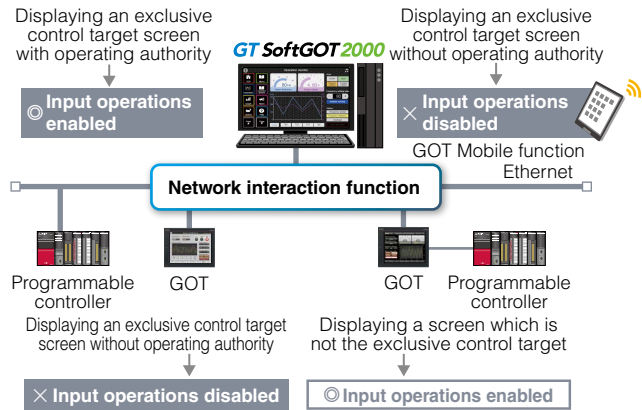
GOTs that can use the SoftGOT-GOT link function can be searched.



## Prevent simultaneous operation by exclusive authorization control with various devices

### Network interaction function

Simultaneous operations from GT SoftGOT2000, GOT, and the GOT Mobile function client terminals on the same network can be prohibited. The exclusive control can be enabled/disabled for each screen.



## 6 Various functions to support FDA 21 CFR Part 11 are available

➤ Easily supporting FDA 21 CFR Part 11 of a system

### Utilizing support functions and sample screens

GT SoftGOT2000 can be used to support FDA 21 CFR Part 11<sup>1</sup>, the standards about electronic data recording of the traceability information, which is required in the food and pharmaceutical industries. Sample screens are available for helping you configure systems.<sup>2</sup>

\*1 The range that GT SoftGOT2000 can support is limited. For the details, please refer to the Technical Bulletin No. GOT-A-0077.

\*2 Sample screens are for use with the GOT2000 Series. To use the sample screens with GT SoftGOT2000, it is required to change the GOT type to GT SoftGOT2000.

### Access management per operator

The operator authentication function enables management of users who can login to GT SoftGOT2000.

➤ Operator authentication function (page 15)

\* To prevent impersonations, user accounts should be managed thoroughly by the users.

#### Operator authentication screen



Input an operator name and password for login

### Recording audit trails (histories for the follow-up survey later)

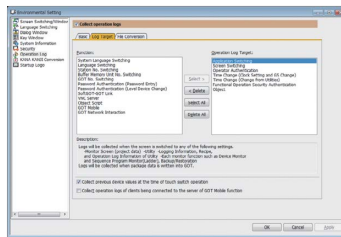
Audit trails can be recorded by setting the operation log appropriately.

➤ Operation log function (page 15)

#### Information required to be recorded

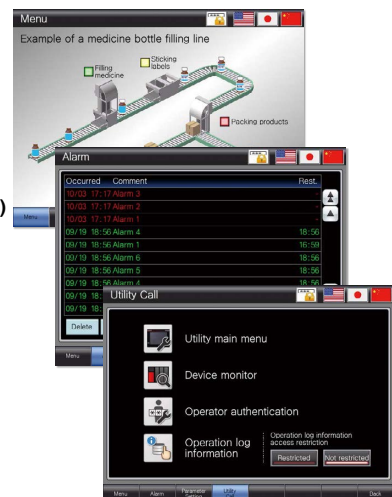
- Time stamp
- User name of the logged-in operator
- Description and details of the operation performed by the operator (logs before and after the data change)

#### Operation log target setting screen (GT Designer3)



### Sample screens to support configuring systems

Sample screens show setting examples that support FDA 21 CFR Part 11.



# Solving issues in system operation

## 7 Data interaction with user-created applications improves work efficiency

Improving work efficiency by interacting with applications created by the users

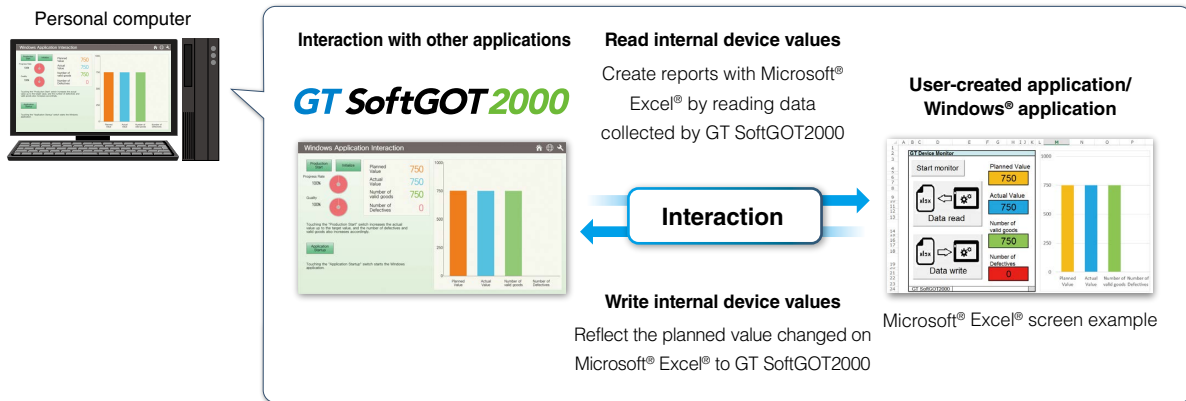
### Building advanced systems

Windows® applications can be started up from GT SoftGOT2000.

The data of GT SoftGOT2000 internal devices can be read and written from the user-created applications. Interaction between GT SoftGOT2000 and user-created applications enables the users to control or manage data by own method.

\* GD, GS, GB, SGB, or SGD internal devices can be used.

\* For the supported applications, please refer to the GT SoftGOT2000 Version1 Operating Manual.



### Starting up other applications with a touch switch on the GT SoftGOT2000 screen

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 between equipment monitoring and personal computer applications makes monitoring work efficient.

#### Starting up Microsoft® Excel®

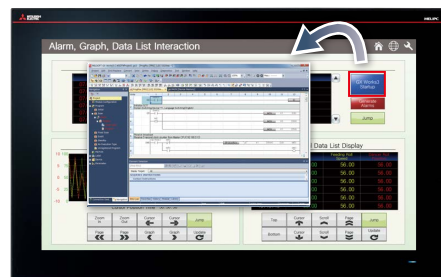
The data collected by GT SoftGOT2000 can be checked in a graph quickly.



#### Starting up GX Works3

MI3000 at the shop floor monitors sequence programs without bringing a laptop computer.

\* GX Works3 should be installed in advance.



#### Automatic startup

By using scripts, other applications can be started automatically by setting conditions such as when an error occurs or specific device values. GS devices are used to control the function.

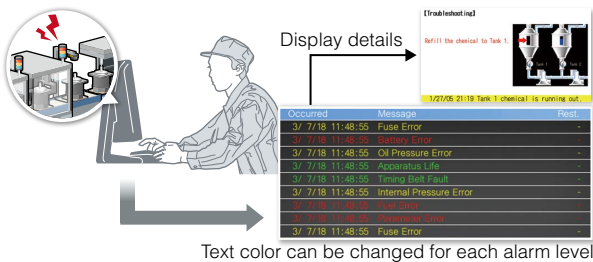


## 8 Various maintenance functions can be used for troubleshooting

Quick restoration in case of problem occurrence

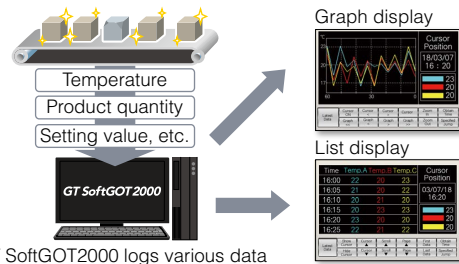
### Alarm display function

GT SoftGOT2000 can be used to check alarms of connected devices. By showing alarms in different colors depending on the level and showing alarm recovery methods in a window screen, you can easily identify the cause of problem occurrence.



### Logging & graph/list display

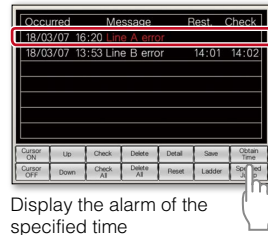
GT SoftGOT2000 collects (logs) the data from devices such as programmable controllers and temperature controllers, and displays the collected data in a graph and list.



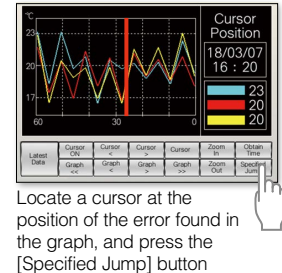
### Combined use of functions

Use of the alarm function combined with the logging and graph/list helps you to check the status when the alarm occurred and the status of the error found in the graph.

Select an alarm from the list, and press the [Specified Jump] button



Display the graph recorded when the alarm occurred

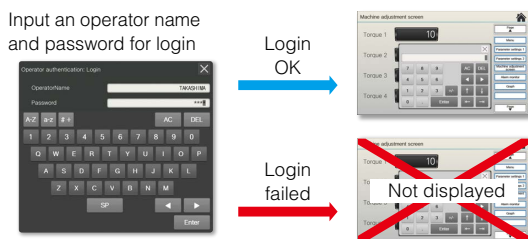


## 9 User management with access control and operation log enhances security

Securing security

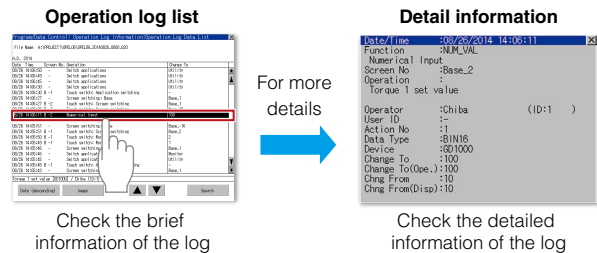
### Operator authentication function

Manage login information using operator names and passwords.



### Operation log function

GT SoftGOT2000 records all the operations performed by operators.



### Combined use of functions

Using login management of the operator authentication function and recording operations by the operators enables you to check the "who, what, when, and how" of an operation performed. This is useful for preventing invalid operations and identify the cause of problems.

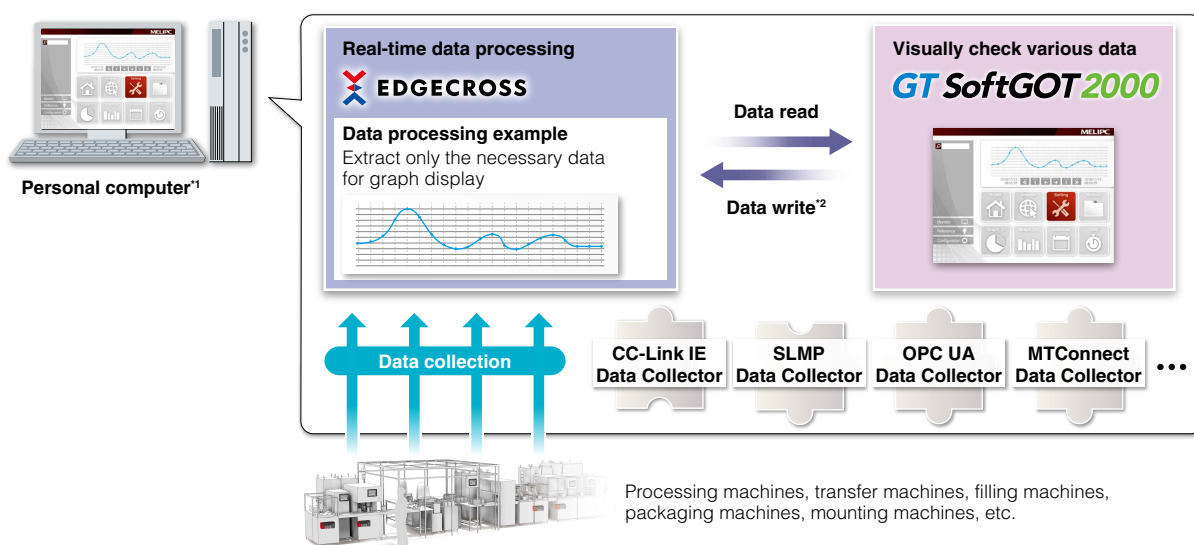
# Solving issues in IoT solutions

## 10 Edgexross enables analysis of various data at the shop floor

Easy data analysis of the shop floor with IoT solutions

### Edgexross interaction

Edgexross is the open software platform in Japan in the edge computing field that coordinates factory automation and IT systems. Edgexross analyzes and diagnoses data near the shop floor and enables real time feedback to the production, data collection, and sending or receiving data to/from facilities and equipment regardless of vendors and network types. The data collected by Edgexross can be easily visualized and analyzed using various functions such as trend graph display on GT SoftGOT2000.



\*1 It is required to install Edgexross Basic Software, Data Collector, and GT SoftGOT2000 on a personal computer.

\*2 To write data from GT SoftGOT2000 to Edgexross Basic Software, installation of MELSOFT GT OPC UA Client software is required separately.





## 11 Easy data collection, visualization, and collective management of data from multiple devices and different manufacturers

Effective use of the information separately stored in each device

### Utilization of iQ Monozukuri Process Remote Monitoring

iQ Monozukuri Process Remote Monitoring is an application package to easily introduce IoT technologies to the shop floor, collect and visualize information of multiple devices, and collectively manage the information.

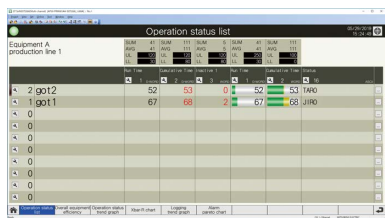
Manufacturing process and productivity of the whole production can be improved by analyzing the data displayed on GT SoftGOT2000. The operation status of the shop floor and the information such as operation logs and alarms can be collected from each device via an on-site GOT.

Data interaction with up to 50 on-site GOTs easily enables batch monitoring and central management of large-scale systems.

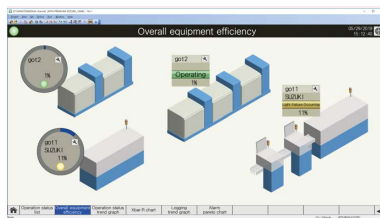


\*1 The number of on-site GOTs that can be managed varies depending on the number of licenses. To manage information of 50 GOTs, purchase the product including 10 licenses.

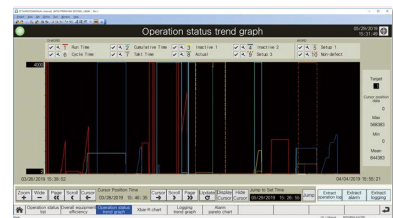
### iQ Monozukuri Process Remote Monitoring template project for GT SoftGOT2000 (examples)



Operation status list



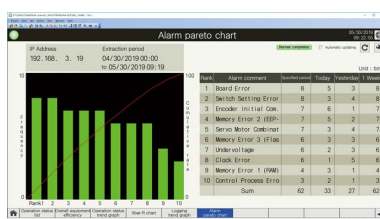
Overall equipment efficiency



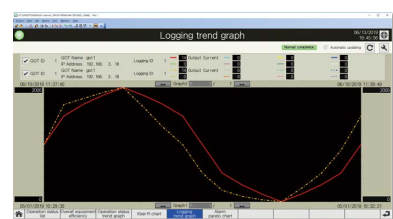
Operation status trend graph



Xbar-R chart



Alarm pareto chart



Logging trend graph

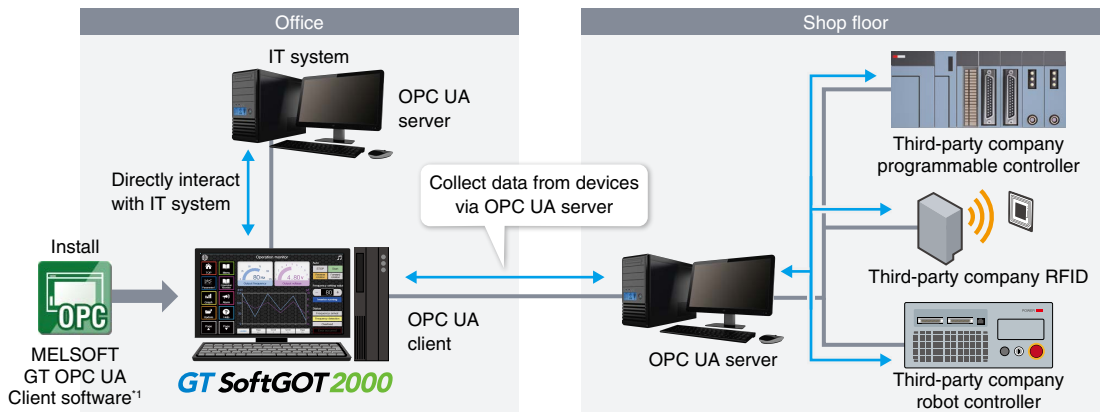
# Solving issues in system expansion

## 12 OPC UA enables easy connection with IT systems

↑ Data interaction by easily connecting IT systems and the shop floor

### OPC UA client connection **NEW**

GT SoftGOT2000 accesses an OPC UA server as an OPC UA client. GT SoftGOT2000 can collect data you need via the OPC UA server even if direct connection to IT systems or the devices at the shop floor is not supported.



\*1 It is required to install MELSOFT GT OPC UA Client software on a personal computer. For more information about how to obtain the software, please contact your local sales office.

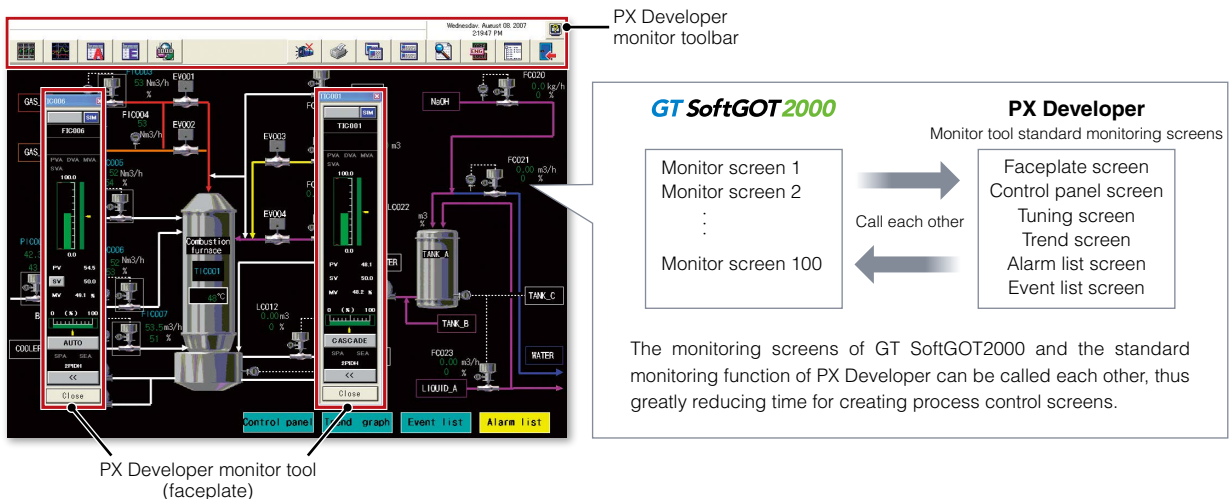
## 13 MELSEC process control monitoring tool enables simple monitoring

↑ Easy operation and monitoring of process control

### Interaction with PX Developer monitor tool

Simplify design and maintenance of a process control system by connecting PX Developer's monitor tool (standard monitoring screens) with GT SoftGOT2000. This process control monitoring system can be easily used in various process control applications.

GT SoftGOT2000 and PX Developer monitor tool



The monitoring screens of GT SoftGOT2000 and the standard monitoring function of PX Developer can be called each other, thus greatly reducing time for creating process control screens.

# Function List

To use various functions of GOT, an SD memory card, USB memory, battery, or option units may be required. For the details, please refer to the Graphic Operation Terminal GOT2000 Series catalog or relevant product manual.

Item	GT27	GT25*1	GT21*2	GT SoftGOT2000
Screen size	5.7" to 15"	5.7" to 12.1"	3.8" to 7"	—
Resolution	VGA, SVGA, XGA	VGA, WVGA, SVGA, WXGA	WVGA, others	Resolution: 640 to 1920 × 480 to 1200
Alarm display (user)	●	●	●*11	●
Alarm display (system)	●	●	—	●
Historical trend graph	●	●	●*11	●
Graphical meter	●	●	●	●
Logging	●	●	●*3	●
Recipe	●	●	●*11	●
Device data transfer	●	●	●	●
Hard copy	File output	●	●*3	●
	Serial printer output	●	●*3	●*4
	Ethernet printer output	●	●	—
	PictBridge printer output	●	●*6	—*4
Report	File output	●	—	●*5
	Serial printer output	●	●*3	●*5
	Ethernet printer output	●	●	●*5
	PictBridge printer output	●	●*6	—*5
Sound output	●	●*6	—	●*7
GOT Mobile	●	●	—	—
VNC server	●	●	—	—
Remote personal computer operation (Ethernet)	●	●	—	—
SoftGOT-GOT link	●	●	—	●
MES interface	●	●	—	—
Operator authentication	●	●	●*11	●
Operation log	●	●	—	●
FA transparent	●	●	●	—
Multi-channel	● 4 channels (Up to 3 units)	● 4 channels (Up to 3 units*6)	●*3 2 channels (No units can be mounted)	●*8 4 channels
Station No. switching	●	●	●	●
Screen gesture, Object gesture	●	—	—	—
GOT network interaction	●	●	—	●
Security key authentication	●	●	—	—
IP filter	●	●	●	—
Backup/restoration	●	●	●*3	—
Document display	●	●	—	●
Device monitor	●	●	●	—
Sequence program monitor (iQ-R ladder)	●	●	—	—
Sequence program monitor (Ladder)	●	●	—	—
Network monitor	●	●	—	—
CC-Link IE Field Network diagnostics	●	●	—	—
Intelligent module monitor	●	●	—	—
Drive recorder	●	●	—	—
Servo amplifier graph	●	●	—	—
Motion program editor	●*9	●*9	—	—
Motion program I/O	●*9	●*9	—	—
Servo amplifier monitor	●	●	—	—
R motion monitor	●	●	—	—
Q motion monitor screen	●	●	—	—
CNC monitor	●*9	●*9	—	—
CNC monitor 2	●	●	—	—
Log viewer	●	●	—	—
FX list editor	●	●	●*10	—
FX ladder monitor	●	●	—	—
System launcher, System launcher (servo network)	●	●	—	—

\*1 Specifications are different from those of GT25 wide, GT25 rugged, or GT25 handy models. For the details, please refer to the GOT2000 Series catalog (L(NA)08270ENG).

\*2 Specifications are different from those of GT21 wide models. For the details, please refer to the GOT2000 Series catalog (L(NA)08270ENG).

\*3 Excluding GT2103-PMBLS.

\*4 Data is output to the printer that is recognized by the personal computer.

\*5 CSV files are saved in the virtual drive of the personal computer so that it is recommended to output the files to printers.

\*6 Excluding GT2505-VTBD.

\*7 Data is output to a built-in speaker of personal computer or an external speaker.

\*8 Supported by Ethernet connection, OPC UA Client connection, or microcomputer connection.

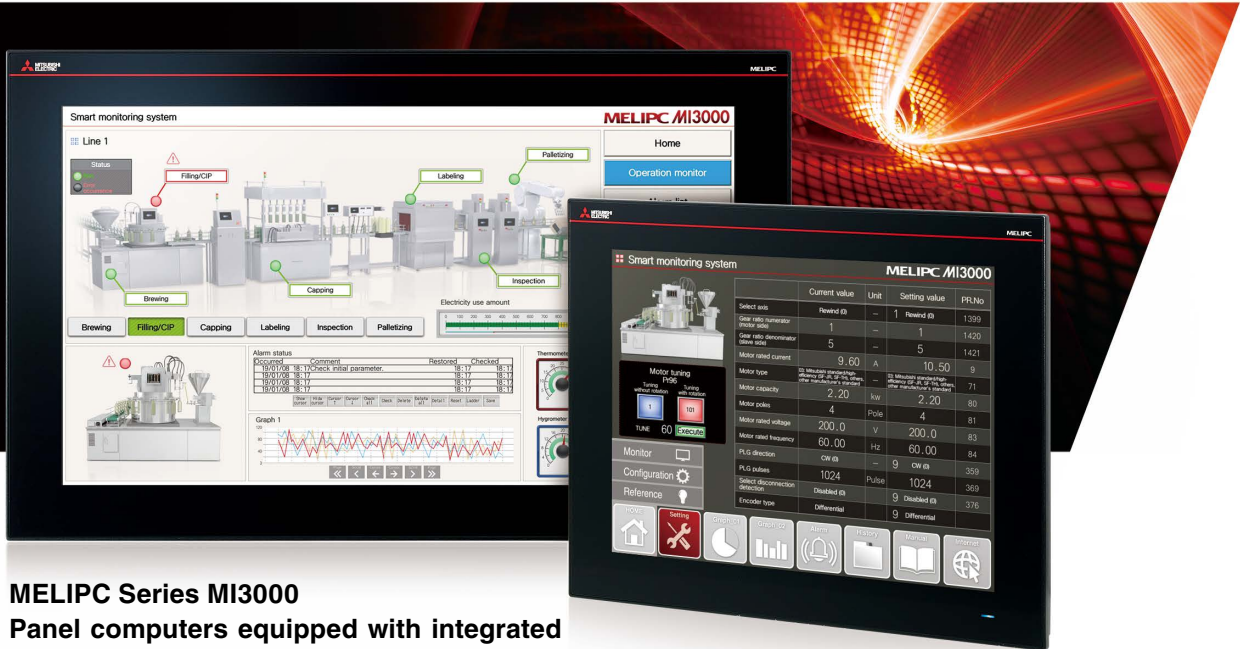
\*9 Supported by GOTs with a resolution of SVGA or higher.

\*10 Supported by GT2104-RTBD only.

\*11 On GT2103-PMBLS, only the functions that do not require SD memory card can be used.

# MI3000 with GT SoftGOT2000

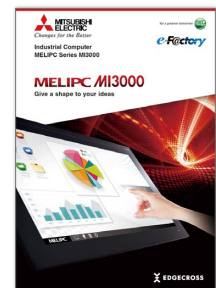
GT SoftGOT2000 is pre-installed on Industrial Computer MELIPC Series MI3000



**MELIPC Series MI3000**  
Panel computers equipped with integrated touch screens

▼ For details

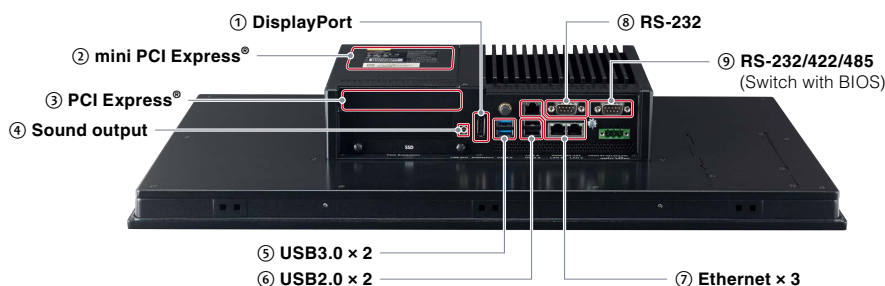
Item	MI3315G-W	MI3321G-W
OS	Windows® 10 IoT Enterprise 2016 LTSB (64 bit)	
MPU	Intel® Core™ i3-6100U 2.30 GHz (Dual Core)	
Screen size	15 inch	21.5" widescreen
Resolution	XGA: 1024 × 768 dots	Full HD: 1920 × 1080 dots
Display color	16.77 million	
Touch panel type	PCAP (Projected Capacitive)	
Main memory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



Industrial Computer  
MELIPC Series MI3000  
L(NA)08600ENG

## System expansion according to 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.
- 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 three ports. The network in the office can be separated from the one in the shop floor to enhance security.
- ⑧⑨ **RS-232/422/485**  
For data collection from existing facilities.



5

MI3000 with GT SoftGOT2000

# MELIPC MI3000

## Useful in edge computing or as an operation panel

### Beautiful, stunning, large screen monitor

Large 21.5-inch widescreen display and 15-inch display models are available. Colorful images are displayed with 16.77 million colors

### PCAP (Projected Capacitive) touch panel

Light-touch operation is realized with a PCAP touch panel that is widely used for smartphones and tablet devices.

### Easily visualize shop floor with GT SoftGOT2000

Since GT SoftGOT2000 is pre-installed on MI3000, various industrial devices can be monitored in the same way as GOT2000 Series.

### Windows® OS enables wider usage

Not only familiar Windows® applications, but also user-created applications can be used to configure systems that meet requirements of individual customers.

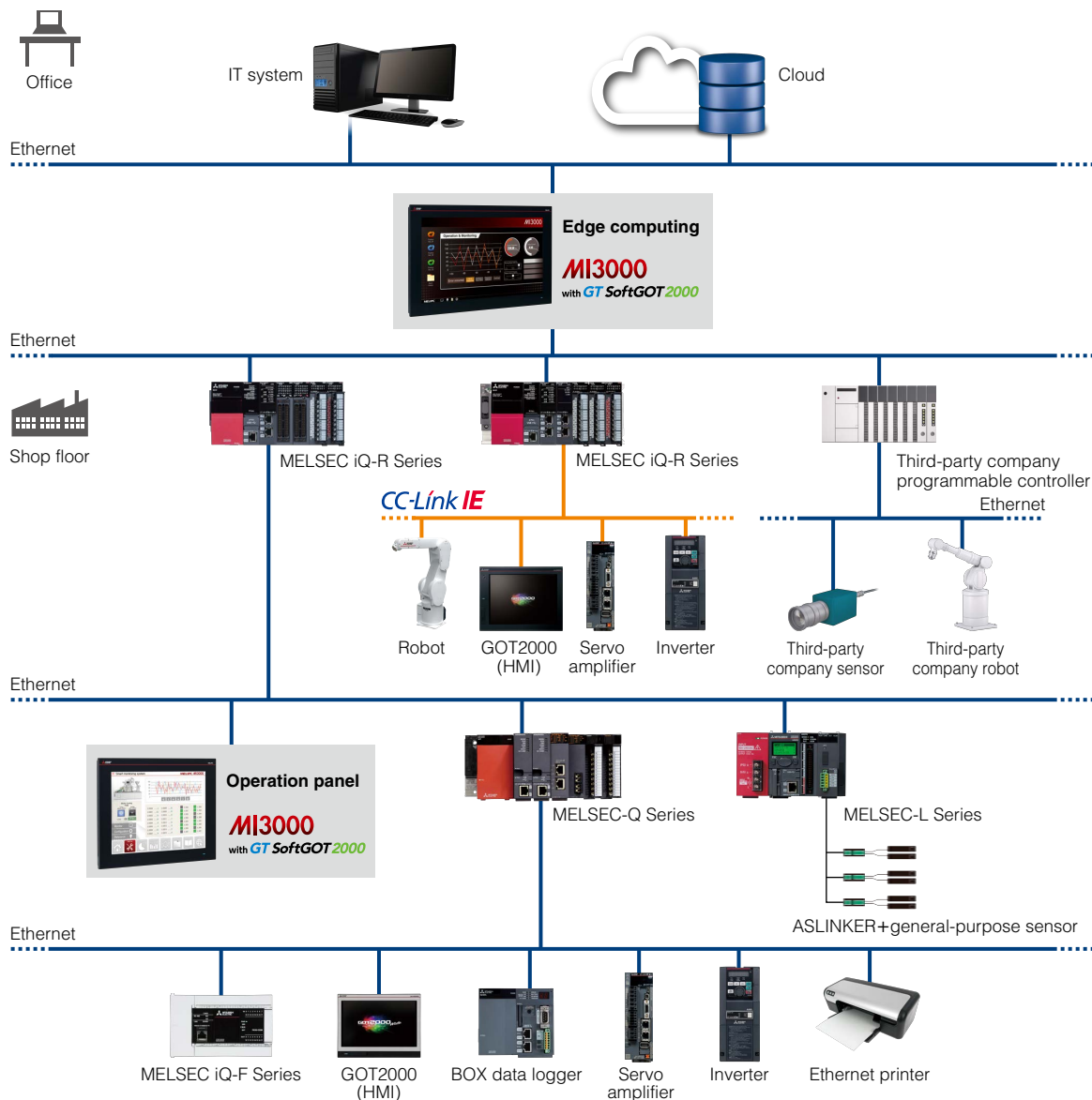
### Realizes edge-computing

Edgecross Basic Software and SLMP Data Collector are pre-installed to realize processing of production big data and coordination with IT systems.

### Usable as an operation panel

GT SoftGOT2000 is usable as an operation terminal at the shop floor. Since Windows® OS compatible software can be used, GT SoftGOT2000 expands possibilities of an operation panel.

## System configuration



5 MI3000 with GT SoftGOT2000

# GT SoftGOT2000 Connectable Model List

## 1. Mitsubishi Electric programmable controllers/C Controller modules/Safety controllers/Motion controllers

Series	Model name	Connection type												
		Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSEC NET/H connection	MELSEC NET/10 connection <sup>1</sup>			
		Single	Multi	RS-232	USB									
Programmable controller	MELSEC iQ-R Series	R00CPU <b>NEW</b>												
		R01CPU <b>NEW</b>												
		R02CPU <b>NEW</b>												
		R04CPU												
		R08CPU												
		R16CPU												
		R32CPU	○	○	×	○	○	×	○	○	×	×		
		R120CPU												
		R04ENCPU												
		R08ENCPU												
		R16ENCPU												
		R32ENCPU												
		R120ENCPU												
		Safety CPU	R08SFCPU <sup>*27</sup>											
			R16SFCPU <sup>*27</sup>	○	○	×	○	○	×	○	○	×	×	
			R32SFCPU <sup>*27</sup>											
			R120SFCPU <sup>*27</sup>											
		Process CPU	R08PCPU <sup>*28</sup>											
			R16PCPU <sup>*28</sup>	○	○	×	○	○	×	○	○ <sup>*29</sup>	×	×	
			R32PCPU <sup>*28</sup>											
			R120PCPU <sup>*28</sup>											
			R08PSFCPU <sup>*30</sup>											
			R16PSFCPU <sup>*30</sup> <b>NEW</b>	○	○	×	○	×	×	○	○ <sup>*29</sup>	×	×	
			R32PSFCPU <sup>*30</sup> <b>NEW</b>											
			R120PSFCPU <sup>*30</sup> <b>NEW</b>											
		MELSEC-Q Series (Q mode)	High-speed universal model QCPU	Q03UDVCP										
				Q04UDVCP										
				Q06UDVCP	○ <sup>*23</sup>	○ <sup>*23</sup>	○ <sup>*18</sup>	○	○	×	○ <sup>*2</sup>	○ <sup>*4</sup>	○ <sup>*23</sup>	○ <sup>*23</sup>
				Q13UDVCP										
			Universal model QCPU	Q00UCPU								○ <sup>*2</sup>		
	Q01UCPU										○ <sup>*3</sup>			
	Q02UCPU													
	Q03UDCPU			○ <sup>*23</sup>	○ <sup>*23</sup>	○	○	○	×		○ <sup>*4</sup>	○ <sup>*23</sup>	○ <sup>*23</sup>	
	Q04UDHCP													
	Q06UDHCP													
	Q10UDHCP										○ <sup>*2</sup>			
	Q13UDHCP													
	Q20UDHCP													
	Q26UDHCP													
	Built-in Ethernet type		Q03UDECP								○ <sup>*3</sup>			
			Q04UDEHCP											
			Q06UDEHCP	○ <sup>*23</sup>	○ <sup>*23</sup>	○ <sup>*18</sup>	○	○	×	○ <sup>*2</sup>	○ <sup>*4</sup>	○ <sup>*23</sup>	○ <sup>*23</sup>	
			Q10UDEHCP											
			Q13UDEHCP											
			Q20UDEHCP											
			Q50UDEHCP											
			Q100UDEHCP											
	Basic model QCPU		Q00JCPU											
			Q00CPU <sup>*6</sup>	○ <sup>*23</sup>	○ <sup>*23</sup>	○	×	○	×	○ <sup>*5</sup>	×	○ <sup>*23</sup>	○ <sup>*23</sup>	
	High performance model QCPU	Q01CPU <sup>*6</sup>												
		Q02CPU <sup>*6</sup>					×							
		Q02HCP <sup>*6</sup>	○ <sup>*23</sup>	○ <sup>*23</sup>	○	○	○	×	○ <sup>*7</sup>	×	○ <sup>*23</sup>	○ <sup>*23</sup>		
		Q06HCP <sup>*6</sup>												
		Q12HCP <sup>*6</sup>												
	Process CPU	Q25HCP <sup>*6</sup>												
		Q02PHCP								○ <sup>*8</sup>				
		Q06PHCP	○ <sup>*23</sup>	○ <sup>*23</sup>	○	○	○	×		×	○ <sup>*23</sup>	○ <sup>*23</sup>		
		Q12PHCP								○ <sup>*9</sup>				
	Redundant CPU (main base)	Q25PHCP												
		Q12PRHCP	○	○	○	○	×	×	○ <sup>*9</sup>	×	○ <sup>*10</sup>	○ <sup>*10</sup>		
	Redundant CPU (extension base)	Q25PRHCP												
		Q12PRHCP	○	○	×	×	○	×	×	×	×	×		
	MELSEC-QS Series	QS01CPU	○	○	×	○ <sup>*11</sup>	×	×	○ <sup>*12</sup>	○ <sup>*13</sup>	○	○		
	MELSEC-L Series	L02SCPU	L02SCPU	○ <sup>*14</sup>	○ <sup>*14</sup>	○	○	○	×	×	○ <sup>*16</sup>	×	×	
			L02SCPU-P											
		L06CPU	L02CPU											
			L02CPU-P											
			L06CPU	○ <sup>*14</sup>	○ <sup>*14</sup>	○ <sup>*17</sup>	○	○	×	×	○ <sup>*16</sup>	×	×	
			L06CPU-P											
			L26CPU											
			L26CPU-P											
			L26CPU-BT											
			L26CPU-PBT											
	MELSEC iQ-F Series	FX5U	○	○	○	×	×	×	×	×	×	×		
		FX5UC												



- There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 27.
- For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

Series		Model name	Connection type									
			Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSEC NET/H connection	MELSEC NET/10 connection <sup>*1</sup>
			Single	Multi NEW	RS-232	USB						
Programmable controller	MELSEC-F Series	FX0										
		FX0S	X	X	O	X	X	X	X	X	X	X
		FX0N										
		FX1										
		FX1S	X	X	O	X	X	X	X	X	X	X
		FX1N										
		FX1NC										
		FX2	X	X	O	X	X	X	X	X	X	X
		FX2C										
		FX2N	X	X	O	X	X	X	X	X	X	X
		FX2NC										
		FX3G	O	O <sup>*31</sup>	O	O	X	X	X	X	X	X
		FX3GC										
FX3U												
FX3UC	O	O <sup>*31</sup>	O	O	X	X	X	X	X	X		
FX3S												
FX3GE												
C Controller module	MELSEC iQ-R Series	R12CCPU-V	O <sup>*25</sup>	O <sup>*25</sup>	X	O <sup>*26</sup>	O <sup>*19</sup>	X	O	O	X	X
	MELSEC-Q Series	Q24DHCCPU-V										
		Q24DHCCPU-VG										
		Q24DHCCPU-LS	O	O	O <sup>*18</sup>	O	O <sup>*19</sup>	X	O <sup>*2</sup>	O	O	O
		Q26DHCCPU-LS										
Q12DCCPU-V <sup>*20</sup>												
Safety controller	MELSEC-WS Series	WS0-CPU0										
		WS0-CPU1	X	X	X	X	X	X	X	X	X	
		WS0-CPU3										
Motion controller	MELSEC iQ-R Series	R16MTCPU										
		R32MTCPU	O	O	X	O	O	X	O	O	X	X
		R64MTCPU										
	MELSEC-Q Series	Q172CPU	X	X	X	X	X	X	X	X	X	X
		Q173CPU										
		Q172CPUN	X	X	X	X	X	X	X	X	X	X
		Q173CPUN										
		Q172HCPU	X	X	X	X	X	X	X	X	X	X
		Q173HCPU										
		Q172DCPU	X	X	X	X	X	X	X	X	X	X
		Q173DCPU										
		Q172DCPU-S1	X	X	X	X	X	X	X	X	X	X
		Q173DCPU-S1										
		Q172DSCPU	O <sup>*23</sup>	O <sup>*23</sup>	O <sup>*18</sup>	O	O	X	O	X	O <sup>*23</sup>	O <sup>*23</sup>
		Q173DSCPU										
		Q170MCPU <sup>*21*22</sup>	O <sup>*23</sup>	O <sup>*23</sup>	O	O	O	X	O	O <sup>*4</sup>	O <sup>*23</sup>	O <sup>*23</sup>
		Q170MSCPU <sup>*22</sup>	O <sup>*23</sup>	O <sup>*23</sup>	O	O	O	X	O	O	O <sup>*23</sup>	O <sup>*23</sup>
		Q170MSCPU-S1 <sup>*22</sup>										
		MR-MQ100	X	X	X	X	X	X	X	X	X	X
		MELSECNET/H remote I/O station	QJ72LP25-25									
QJ72LP25G	X		X	O	X	X	X	X	X	X	X	
QJ72BR15												
CC-Link IE Field Network head module	MELSEC iQ-R Series	RJ72GF15-T2	O	O	X	O	O	X	X	O <sup>*29</sup>	X	X
	MELSEC-L Series	LJ72GF15-T2	X	X	X	O	O	X	X	O	X	X
CC-Link IE Field Network Ethernet adapter module		NZ2GF-ETB <sup>*24</sup>	O	O	X	X	X	X	X	X	X	X

- \*1 Includes the connection where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.
- \*2 Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.
- \*3 Use a CPU and a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.
- \*4 Use a CPU with the upper five digits of the serial No. later than 12012.
- \*5 Use a CPU of function version B or later or a CC-Link IE Controller Network module of function version D or later.
- \*6 For the multiple CPU system configuration, use a CPU of function version B or later.
- \*7 Use a CPU with the upper five digits of the serial No. later than 09012. When the total number of stations in a network is 65 or more, use a CC-Link IE Controller Network module with the upper five digits of the serial No. 09042 or later.
- \*8 When the total number of stations in a network is 65 or more, use a CC-Link IE Controller Network module with the upper five digits of the serial No. 09042 or later.
- \*9 Use a CPU with the upper five digits of the serial No. later than 10042 or a CC-Link IE Controller Network module of function version D or later.
- \*10 Use a MELSECNET/H interface board driver (SWDNC-MNETH-B) with the version K or later.
- \*11 Only the host station and the host station settings can be accessed. (Access to other stations or other PLC CPUs are not allowed.)
- \*12 Use a CPU with the upper five digits of the serial No. later than 10032 or a CC-Link IE Controller Network module of function version D or later.
- \*13 Use a CPU with the upper five digits of the serial No. later than 13042.
- \*14 When using a LJ71E71-100, use a CPU with the upper five digits of the serial No. later than 14112.
- \*15 Use a LJ71E71-100 since L02SCPU and L02SCPU-P have no built-in Ethernet port.
- \*16 Use a CPU with the upper five digits of the serial No. later than 13012.
- \*17 The adapter L6ADP-R2 is required.
- \*18 Access via the serial port (RS-232) of QCPU in the multiple CPU system since the CPU has no serial port.
- \*19 Use the serial port of a serial communication module controlled by another CPU on the multiple CPU system.

- \*20 Use a CPU with the upper five digits of the serial No. later than 12042.
- \*21 When using SV43, use the motion controller CPU on which any of the following main OS software version is installed. SW7DNC-SV43□□: 00F or later
- \*22 Only the PLC CPU area (CPU No.1) can be connected. The PERIPHERAL I/F cannot be used.
- \*23 In the Ethernet, MELSECNET/H, or MELSECNET/10 connection, to monitor a QCPU in the multiple CPU system, always use a network module of function version B or later.
- \*24 Devices of other stations can be monitored via NZ2GF-ETB. (Devices of the host station cannot be monitored.)
- \*25 Use the built-in Ethernet port since RJ71EN71 is not supported.
- \*26 Access via the RCPUI in the multiple CPU system since the CPU has no USB port to connect to a personal computer.
- \*27 Mount a safety function module R6SFM next to the RnSFCPU on the base unit. The RnSFCPU and the safety function module R6SFM must have the same pair version. If their pair versions differ, the RnSFCPU does not operate.
- \*28 Mount a redundant function module R6RFM next to the RnPCPU on the base unit when building a redundant system.
- \*29 In a redundant system, use a CC-Link IE Field Network interface board with the upper five digits of the serial No. 18042 or later.
- \*30 Mount the SIL2 function module R6PSFM and redundant function module R6RFM next to the RnPSFCPU on the base unit.
- \*31 The supported version of the main units varies depending on the Ethernet module to be used.

Ethernet module*	CPU		
	FX3U(C)	FX3G(C)	FX3S
FX3U-ENET-L	Ver. 2.21 or later	FX3U-ENET-L is not supported.	
FX3U-ENET-ADP*	Ver. 3.10 or later	Ver. 2.00 or later	Ver. 1.00 or later

\* To connect to FX3SCPU, use FX3U-ENET-ADP Ver.1.20 or later.

- \*32 PERIPHERAL I/F can be used.

## 1.1. Modules usable when connected with Mitsubishi Electric programmable controllers/C Controller modules/Motion controllers

### ● Ethernet connection

#### • Programmable controller Ethernet modules

CPU series	Ethernet module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71EN71 <sup>4</sup> RJ71GN11-T2 <b>NEW</b> <sup>6</sup> 7 <sup>8</sup> 9
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) <sup>1</sup>	QJ71E71-100 QJ71E71-B5 QJ71E71-B2 QJ71E71
MELSEC-L Series	LJ71E71-100 <sup>2</sup>
MELSEC-F Series	FX3U-ENET-L <sup>3</sup> FX3U-ENET-ADP <sup>3</sup> 5

\*1 When connecting to a Q170MCP/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored. The PERIPHERAL I/F cannot be used.

\*2 When using a LJ71E71-100, use a CPU with the upper five digits of the serial No. later than 14112.

\*3 Options for extension controller may be required depending on the connected CPU.

\*4 Use firmware version 12 or higher when building a redundant system.

\*5 Use FX3U-ENET-ADP Ver.1.20 or higher to connect to FX3SCPU.

\*6 Only available to GT SoftGOT2000 (Multi-channel).

\*7 Usable with MELSEC iQ-R Series programmable controller CPUs only.

\*8 Use firmware version 11 or higher when using R00CPU, R01CPU, or R02CPU.

\*9 Use firmware version 43 or higher when using programmable controller CPUs (excluding R00CPU, R01CPU, R02CPU).

### ● Serial communication connection<sup>1</sup>

#### • Programmable controller serial communication modules

CPU series	Serial communication module	
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series) CC-Link IE Field Network head module (MELSEC iQ-R Series)	RJ71C24 <sup>3</sup> RJ71C24-R2 <sup>3</sup>	
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) <sup>2</sup>	QJ71C24 QJ71C24-R2 QJ71C24N QJ71C24N-R2	QJ71CMO QJ71CMON
MELSEC-L Series CC-Link IE Field Network head module (MELSEC-L Series)	LJ71C24 LJ71C24-R2	

\*1 Only RS-232 communication can be used.

\*2 When connecting to a Q170MCP/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.

\*3 Use firmware version 07 or higher when building a redundant system.

### ● CC-Link IE TSN connection

CPU Series	CC-Link IE TSN module
MELSEC iQ-R Series	×

### ● CC-Link IE Controller Network connection

#### • Network modules (programmable controller side)

CPU series	CC-Link IE Controller Network module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GP21-SX <sup>2</sup>
MELSEC-Q Series (Q mode) MELSEC-QS Series C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) <sup>1</sup>	QJ71GP21-SX QJ71GP21S-SX

\*1 When connecting to a Q170MCP/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.

\*2 Use firmware version 12 or higher when building a redundant system.

#### • Network interface boards (personal computer side)

Type	Network interface board
CC-Link IE Controller Network	Q80BD-J71GP21-SX Q80BD-J71GP21S-SX
	Q81BD-J71GP21-SX (optical loop) Q81BD-J71GP21S-SX (optical loop, with external power supply function)

### ● CC-Link IE Field Network connection

#### • Network modules (programmable controller side)

CPU series	CC-Link IE Field Network module
MELSEC iQ-R Series C Controller module (MELSEC iQ-R Series) Motion controller (MELSEC iQ-R Series)	RJ71GF11-T2 <sup>2</sup> RJ71EN71 RD77GF4 RD77GF8 RD77GF16 RD77GF32
MELSEC-Q Series (Q mode) C Controller module (MELSEC-Q Series) Motion controller (MELSEC-Q Series) <sup>1</sup>	QJ71GF11-T2
MELSEC-QS Series	QS071GF11-T2
MELSEC-L Series	LJ71GF11-T2
MELSEC iQ-F Series	×

\*1 When connecting to a Q170MCP/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.

\*2 Use firmware version 12 or higher when building a redundant system.



- There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 27.
- For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

• Network interface boards (personal computer side)

Type	Network interface board
CC-Link IE Field Network	Q81BD-J71GF11-T2

● MELSECNET/H, MELSECNET/10 connection

• Network modules (programmable controller side)

CPU series	MELSECNET/H, MELSECNET/10 network module	
	Optical loop	Coaxial bus
MELSEC-Q Series (Q mode)*1 MELSEC-QS Series Motion controller (MELSEC-Q Series)*2	QJ71LP21 QJ71LP21-25 QJ71LP21S-25	QJ71BR11*1
C Controller module (MELSEC-Q Series)	QJ71LP21-25 QJ71LP21S-25	

\*1 Use function version B or later of the MELSECNET/H network module and CPU.

\*2 When connecting to a Q170MCPUCPU/Q170MSCPU(-S1), only the PLC CPU area (CPU No.1) can be monitored.

• Network interface boards (personal computer side)

Type	Network interface board
MELSECNET/H	Q80BD-J71LP21-25 (optical loop) Q80BD-J71LP21S-25 (optical loop, with external power supply function) Q80BD-J71LP21G (optical loop) Q80BD-J71BR11 (coaxial loop) Q81BD-J71LP21-25 (optical loop)

2. Mitsubishi Electric industrial computer **NEW**

Series	Model name	Connection type										
		Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection*1	MELIPC direct connection
		Single	Multi <b>NEW</b>	RS-232	USB							
MELIPC	MI5122-VW	○	○	×	×	×	×	×	○	×	×	○

\*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

3. Mitsubishi Electric servo amplifiers (SSCNET III/H)

Series	Model name	Motion controller CPU, or programmable controller	Connection type										
			Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection*1	
			Simple motion module	CPU type	Single	Multi <b>NEW</b>							RS-232
MELSERVO-J4 Series	MR-J4-□B	—	RnMTCPU	○	○	×	○	○	×	○	○	×	×
	MR-J4-□B-RJ	RD77MS	RnCPU	○	○	×	○	○	×	○	○	×	×
	MR-J4W2-□B	FX5-40SSC-S	FX5CPU	○	○	○	○	×	×	×	×	×	×
	MR-J4W3-□B	FX5-80SSC-S	FX5UCPU	○	○	○	○	×	×	×	×	×	×
MELSERVO-JE Series	MR-JE-□B	RD77MS*2	RnCPU	○	○	×	○	○	×	○	○	×	×
		FX5-40SSC-S	FX5CPU	○	○	○	×	×	×	×	×	×	×
		FX5-80SSC-S	FX5UCPU	○	○	○	×	×	×	×	×	×	×

\*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

\*2 Use a module with the firmware version 3 or later.

4. Mitsubishi Electric robot controllers

Series	Controller name	Connection type										
		Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection*1	
		Single	Multi <b>NEW</b>	RS-232	USB							
F Series	CR750-Q(Q172DRCPU)	○*2	○*2	○*3	○*5	○	×	○*4	○	○	○	
	CR751-Q(Q172DRCPU)	○	○	×	×	×	×	×	×	×	×	
	CR750-D	○	○	×	×	×	×	×	×	×	×	
	CR751-D	○	○	×	×	×	×	×	×	×	×	
SQ Series	CRnQ-700(Q172DRCPU)	○*2	○*2	○*3	○*5	○	×	○*4	○	○	○	
SD Series	CRnD-700	○	○	×	×	×	×	×	×	×	×	
FR Series	CR800-D	○	○*7	×	×	×	×	×	×	×	×	
	CR800-R(R16RTCPU)	○	○	×	○*6	×	×	×	×	×	×	
	CR800-Q(Q172DSRCPU) <b>NEW</b>	○	○	○*3	○*5	○	×	○*4	○	○	○	

\*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

\*2 The Display I/F of CRnQ-700, CR750/751-Q cannot be used. Ethernet connections can be established only via the Ethernet module (QJ71E71) or the built-in Ethernet port in the multiple CPU system (QnUDE).

\*3 Access via the serial port (RS-232) of QCPU in the multiple CPU system since CRnQ-700, CR750/751-Q, and CR800-Q have no serial port.

\*4 Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.

\*5 Access via QCPU in the multiple CPU system since CR750-Q, CR751-Q, CRnQ-700, and CR800-Q have no USB port.

\*6 Access via RCPU in the multiple CPU system since CR800-R has no USB port.

\*7 Connectable to the built-in LAN port of CR800-D in Ethernet connection.

## 5. Mitsubishi Electric CNCs

Series	Connection type									
	Ethernet connection		Direct CPU connection		Serial communication connection	CC-Link IE TSN connection	CC-Link IE Controller Network connection	CC-Link IE Field Network connection	MELSECNET/H connection	MELSECNET/10 connection <sup>*1</sup>
	Single	Multi <b>NEW</b>	RS-232	USB						
CNC C80(R16NCCPU-S1)	○	○	×	○ <sup>*4</sup>	×	×	×	×	×	×
CNC C70(Q173NCCPU)	○	○	○ <sup>*2</sup>	○	○	×	○ <sup>*3</sup>	○	○	○

\*1 Only supports the case where MELSECNET/H is used in the MELSECNET/10 mode. Connection to the remote I/O network is not allowed.

\*2 Access via the serial port (RS-232) of QCPU in the multiple CPU system since CNC C70 has no serial port.

\*3 Use a CC-Link IE Controller Network module with the upper five digits of the serial No. later than 09042.

\*4 Access via RCPUCPU in the multiple CPU system since CNC C80 has no USB port.

## 6. Non-Mitsubishi programmable controllers/Motion controllers

Manufacturer	Model name	Connection type					
		Ethernet connection		Direct CPU connection (RS-232)	Serial communication connection (RS-232)		
		Single	Multi <b>NEW</b>				
OMRON Corporation	SYSMAC CJ1	CJ1H CJ1G	CJ1M	○	○	○	×
	SYSMAC CJ2	CJ2H		○	○	○	×
		CJ2M			○	○	○ <sup>*1</sup>
	SYSMAC CPM	CPM2A		×	×	○	×
	SYSMAC CQM1	CQM1		×	×	○ <sup>*2</sup>	×
	SYSMAC CQM1H	CQM1H		×	×	○	×
	SYSMAC CP1	CP1E (N type)		×	×	○ <sup>*6</sup>	×
	SYSMAC CS1	CS1H CS1G	CS1D <sup>*3</sup>	○	○	○	×
	SYSMAC CVM1/CV <sup>*4</sup>	CVM1-CPU11-V□ CVM1-CPU01-V□ CV500-CPU01-V□	CV1000-CPU01-V□ CV2000-CPU01-V□	×	×	○	×
SYSMAC α	C200HX C200HG	C200HE	×	×	○	×	
NJ	NJ501-□□□□ NJ101-□□□□	NJ301-□□□□	×	×	×	×	
KEYENCE CORPORATION	KV-700 KV-1000	KV-3000		○	○	×	×
		KV-5500		○	○	×	×
	KV-5000 KV-7300 KV-7500			○	○	×	×
				○	○	×	×
				○	○	×	×
TOSHIBA CORPORATION	Unified Controller nv Series	PU811		○	○	×	×
		PUM11		○	○	×	×
		PUM12	<b>NEW</b>	○	○	×	×
		PUM14	<b>NEW</b>	○	○	×	×
YASKAWA Electric Corporation	GL120	GL130		×	×	○	×
	GL60S GL60H	GL70H		×	×	×	○
	CP-9200SH			×	×	×	○
	CP-9300MS			×	×	○	×
	MP920			○	○	○	○
	MP930			×	×	○	×
	MP940			×	×	○	×
	PROGIC-8			×	×	○	×
	CP-9200(H)			×	×	○	×
	CP-312			×	×	×	×
	CP-317			○	○	×	○
	MP2200 MP2300	MP2300S		○	○	×	○
	MP3200	MP3300		○	○	×	×
	Yokogawa Electric Corporation	FA-M3	F3SP05	F3SP38	○	○	×
F3SP08			F3SP53				
F3FP36			F3SP58				
F3SP21	F3SP59						
F3SP25	F3SP66						
F3SP28	F3SP67						
F3SP35							
FA-M3V	F3SP71-4N F3SP71-4S	F3SP76-7S	○	○	×	×	
	STARDOM	NFCP100	NFJT100	○ <sup>*7</sup>	○ <sup>*7</sup>	×	×
Siemens AG	SIMATIC S7-200 series <sup>*5</sup> SIMATIC S7-300 series	SIMATIC S7-400 series SIMATIC S7-1200 series <sup>*5</sup>		○	○	×	×

\*1 Only CJ2M-CPU1□ can be connected.

\*2 Connection to the CQM1-CPU11 is not allowed since the CQM1-CPU11 has no RS-232 interface.

\*3 Connection is supported only when a single communication unit is used in a single CPU system configuration.

\*4 SYSMAC CVM1/CV can be used with a CPU version 1 or later.

\*5 Only OP communication can be used in Ethernet connection of the S7-200 series and the S7-1200 series.

\*6 Connection is not available with the E type CP1E.

\*7 Only MODBUS<sup>®</sup>/TCP connection is supported. Use the MODBUS<sup>®</sup>/TCP master communication driver.

- There are two ways of usage of GT SoftGOT2000: GT SoftGOT2000 for single channel connection and GT SoftGOT2000 (Multi-channel) for multi-channel connection. GT SoftGOT2000 (Multi-channel) supports Ethernet connection, connection to OPC UA servers, or connection to microcomputers. Therefore in the following list, Ethernet connection column is separated in two columns: Single (GT SoftGOT2000) and Multi (GT SoftGOT2000 (Multi-channel)). For connection with OPC UA servers or microcomputers, please refer to page 27.
- For the details of the connection configuration, please refer to the GT SoftGOT2000 Version1 Operating Manual.

## 6.1. Modules usable when connected with non-Mitsubishi controllers in serial communication connection or Ethernet connection

Manufacturer		Ethernet		RS-232	
OMRON Corporation	Ethernet module	CS1W-ETN21 CS1W-EIP21	CJ1W-ETN21 CS1D-ETN21D	-	
KEYENCE CORPORATION	Ethernet module	KV-LE20V KV-EP21V	KV-LE21V	-	
TOSHIBA CORPORATION	Ethernet module	EN811		-	
YASKAWA Electric Corporation	MEMOBUS module Communication module	218IF 218IF-01 218IF-02*1 218TXB		JAMSC-IF60 JAMSC-IF61 CP-217IF 217IF	217IF-01 218IF-01 218IF-02*1
Yokogawa Electric Corporation	Ethernet interface module	F3LE01-5T F3LE11-0T F3LE12-0T		-	
Siemens AG	Ethernet module	CP243-1 CP243-1 IT CP343-1 CP343-1 Advanced	CP343-1 IT CP343-1 Lean CP443-1 CP443-1 IT	-	

\*1 To connect MP2200, MP2300, or MP2300S using Ethernet connection or RS-232 connection, use a CPU of software version 2.60 or later.

## 7. MODBUS® devices

Communication is possible with devices compatible with MODBUS®/TCP master or MODBUS®/TCP slave connection.

For the MODBUS® devices, which have been checked for operation, please refer to the Technical Bulletin "List of Valid Devices Applicable for GOT2000 Series MODBUS® Connection" No. GOT-A-0070.

## 8. SLMP devices

Communication with SLMP compatible devices is possible.

For the SLMP devices, which have been checked for operation, please refer to the Technical Bulletin "List of SLMP-compatible Equipment Validated to Operate with the GOT2000 Series" No. GOT-A-0085.

## 9. OPC UA servers **NEW**

Communication with OPC UA servers is possible.

For the OPC UA servers, which have been checked for operation, please refer to the Technical Bulletin "List of OPC UA Servers Validated to Operate with the GOT2000 Series" No. GOT-A-0137.

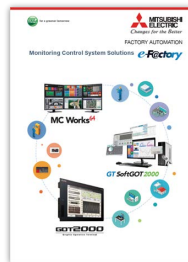
## 10. Microcomputer connection **NEW**

By connecting a personal computer, microcomputer board, programmable controller, etc. to a GOT, the data can be written to or read from virtual devices of the GOT.

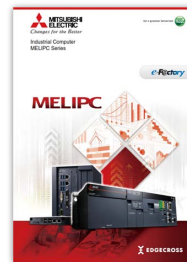
## Related materials



Graphic Operation Terminal  
GOT2000 Series  
L(NA)08270ENG



Monitoring Control System  
Solutions  
L(NA)08577ENG



Industrial Computer  
MELIPC Series  
L(NA)08578ENG



FA Application Package  
iQ Monozukuri Process Remote  
Monitoring  
L(NA)08674ENG

# Specifications

Item	Description
Resolution (dots)	640 to 1920 × 480 to 1200
Display color	65536 colors
Memory capacity	57 MB
Connection type <sup>*1</sup>	Ethernet connection, direct CPU connection, serial communication connection, CC-Link IE Controller Network connection, CC-Link IE Field Network connection, bus connection <sup>*2</sup> , MELSECNET connection

\*1 The required devices vary depending on the connection type.

\*2 Connectable only when using a PC CPU module.

# Operating Environment

Item	Description
Personal computer	Personal computer that Windows® runs on. PPC-852-21G, and PPC-852-22F manufactured by CONTEC CO., LTD <sup>*9</sup> MELIPC (MI5122-VW, MI3321G-W, MI3315G-W, MI2012-W, MI2012-W-CL) <sup>*15</sup>
OS (English, Simplified Chinese, Traditional Chinese, Korean, or German version)	Microsoft® Windows Server® 2016 (Standard) (64 bit) <sup>**13*5*7</sup> Microsoft® Windows Server® 2012 (R2 Standard) (64 bit) <sup>**13*5*6*7</sup> Microsoft® Windows Server® 2008 (R2 Enterprise, R2 Standard) (64 bit) <sup>**13*4*5</sup> Microsoft® Windows® 10 (Enterprise, Pro) (64 bit/32 bit) <sup>**13*5*7</sup> Microsoft® Windows® 10 (Home) (64 bit/32 bit) <sup>**13*5</sup> Microsoft® Windows® 10 (IoT Enterprise 2019 LTSC) (64 bit) (English OPK, or English OPK and a language pack for localization) <sup>**13*5*7*12*13</sup> Microsoft® Windows® 10 (IoT Enterprise 2016 LTSC) (64 bit) (English OPK, or English OPK and a language pack for localization) <sup>**13*5*7*12*13</sup> Microsoft® Windows® 8.1 (Enterprise, Pro) (64 bit/32 bit) <sup>**13*5*6*7</sup> Microsoft® Windows® 8.1 (64 bit/32 bit) <sup>**13*5*6</sup> Microsoft® Windows® 8 (Enterprise, Pro) (64 bit/32 bit) <sup>**13*5*6*7</sup> Microsoft® Windows® 8 (64 bit/32 bit) <sup>**13*5*6</sup> Microsoft® Windows® 7 (Enterprise, Ultimate, Professional) (64 bit/32 bit) <sup>**13*4*5</sup> Microsoft® Windows® 7 (Home Premium) (64 bit/32 bit) <sup>**13*5</sup> Microsoft® Windows® 7 (Starter) (32 bit) <sup>**13</sup> Microsoft® Windows Vista® (Enterprise, Ultimate, Business, Home Premium, Home Basic) (32 bit) Service Pack1 or later <sup>**13</sup> Microsoft® Windows® XP (Professional, Home Edition) (32 bit) Service Pack3 or later <sup>**2*3</sup> Microsoft® Windows® XP (Embedded) (32 bit) <sup>**2*3*8</sup>
CPU	Intel® Core™2 Duo Processor 2.0 GHz or more recommended
Memory	For a 64-bit OS: 2 GB or more recommended For a 32-bit OS: 1 GB or more recommended
Display	Resolution XGA (1024 × 768 dots) or higher
Hard disk space <sup>*10</sup>	For installation: 5 GB or more recommended For execution: 512 MB or more recommended
Display color	High Color (16 bit) or higher
Hardware	GT27-SGTKEY-U (license key (for USB port))
Other software	The following software is required to create the project data. • GT Designer3 Version1.100E or later <sup>**11*14</sup> The following software is required for interaction with PX Developer. • PX Developer Version1.40S or later • GT Designer3 Version1.105K or later <sup>**11</sup> The following software is required to connect with GX Simulator. • GX Simulator Version5.00A or later The following software is required to connect with GX Simulator2. • GX Works2 Version1.12N or later The following software is required to connect with GX Simulator3. • GX Works3 Version1.007H or later The following software is required to connect with MT Simulator2. • MT Works2 Version1.70Y or later The following software is required to use the OPC UA client connection. • GT OPC UA Client <sup>*16</sup>
Other hardware	Use the hardware compatible with the above OS. • For installation: mouse, keyboard, DVD-ROM drive • For execution: mouse, keyboard • For printing: printer Prepare the following hardware if necessary. • For execution (only when outputting buzzer sound or others): sound function, speaker

\*1 Administrator authority is required for installing and using GT SoftGOT2000.

To use GT SoftGOT2000 and other MELSOFT products in a single personal computer together, other MELSOFT products must also run with administrator authority.

\*2 Administrator authority is required for installing and using GT SoftGOT2000.

\*3 The following functions are not supported.

- Application start in Windows compatibility mode
- Fast user switching
- Change your desktop themes (fonts)
- Remote desktop
- DPI setting other than the normal size (For Windows® XP and Windows Vista®)
- Setting the size of text and illustrations on the screen to any size other than [Small-100%] (For Windows® 10, Windows® 8.1, Windows® 8, and Windows® 7)

\*4 Windows XP Mode is not supported.

\*5 Tapping and press-and-hold operation are the supported touch operation.

The following operations cannot be performed with touch operation because operations such as flicking are not supported.

- Simultaneous 2-point press on the touch switch
- Moving the overlap window and key window by slide operation

When [Allow press-and-hold of a mouse button to function as a right-click] is selected in the [Environment Setup] dialog of GT SoftGOT2000, the following operations also cannot be performed.

- Touch switch operation with [Momentary] selected for [Action]
- Touch switch operation with [ON] selected for [Delay]
- Operation of the utility call key

\*6 Modern UI Style is not supported.

\*7 Hyper-V is not supported.

\*8 For using the PPC-852-22F, GT SoftGOT2000 can be used on the PPC-852-22F with the OS preinstalled only.

\*9 Refer to the manual of the PC CPU module to be used.

\*10 When using GT Designer3 or PX Developer besides GT SoftGOT2000, additional free space is required.

For the available space required when using GT Designer3, please refer to the GT Works3 operating environment.  
For the available space required when using monitor tool functions of PX Developer, please refer to the following manual.  
⇒ PX Developer Version □ Operating Manual (Monitor Tool)  
When using a user-created application, free space is required separately.

\*11 Use GT Designer3 included in GT Works3 that contains GT SoftGOT2000.

\*12 The following OSs are not supported.  
• Microsoft® Windows® 10 IoT Enterprise for Retail or Thin Client  
• Microsoft® Windows® 10 IoT Enterprise for Tablets  
• Microsoft® Windows® 10 IoT Enterprise for Small Tablets

\*13 The environments that use the following lockdown features are not supported.

- Unified Write Filter
- Assigned Access
- USB Filter
- Layout Control
- AppLocker
- Shell Launcher

\*14 To use Edgexross interaction function, Version1.195D or later is required.

\*15 Microsoft® Windows® 10 IoT Enterprise 2016 LTSC is pre-installed. For the specifications of MELIPC, please refer to the following manuals.

- MELIPC MI5000 Series User's Manual (Startup)
- MELIPC MI3000 User's Manual
- MI2012-W User's Manual

\*16 To use OPC UA client connection, use Windows® 7 or later.

# Product List

## GT SoftGOT2000

Product name	Model	Description
License key for GT SoftGOT2000*1	GT27-SGTKEY-U	USB port license key

\*1 To use GT SoftGOT2000, a license key for GT SoftGOT2000 is necessary for each personal computer. GT SoftGOT2000 can be used on MELIPC MI3000 without a license key. GT SoftGOT2000 is included in HMI/GOT Screen Design Software MELSOFT GT Works3.

## MELIPC

Product name	Model	Screen size	Panel color	Overview
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	Description		
HMI/GOT Screen Design Software MELSOFT GT Works3	SW1DND-GTWK3-E	English Version	Standard license product*1	DVD-ROM

\*1 Volume license product and additional license product are also available. The desired number of licenses (2 or more) can be purchased. For details, please contact your local sales office.

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### Precautions before use

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### 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.

# Global support

## Global FA Centers



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### Taiwan

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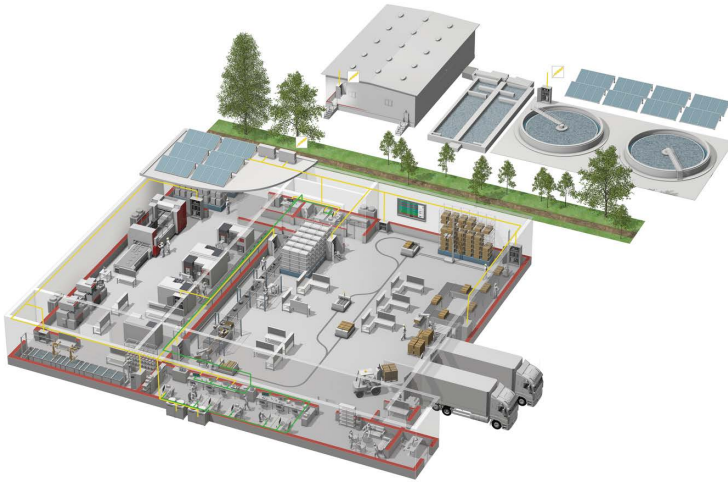
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