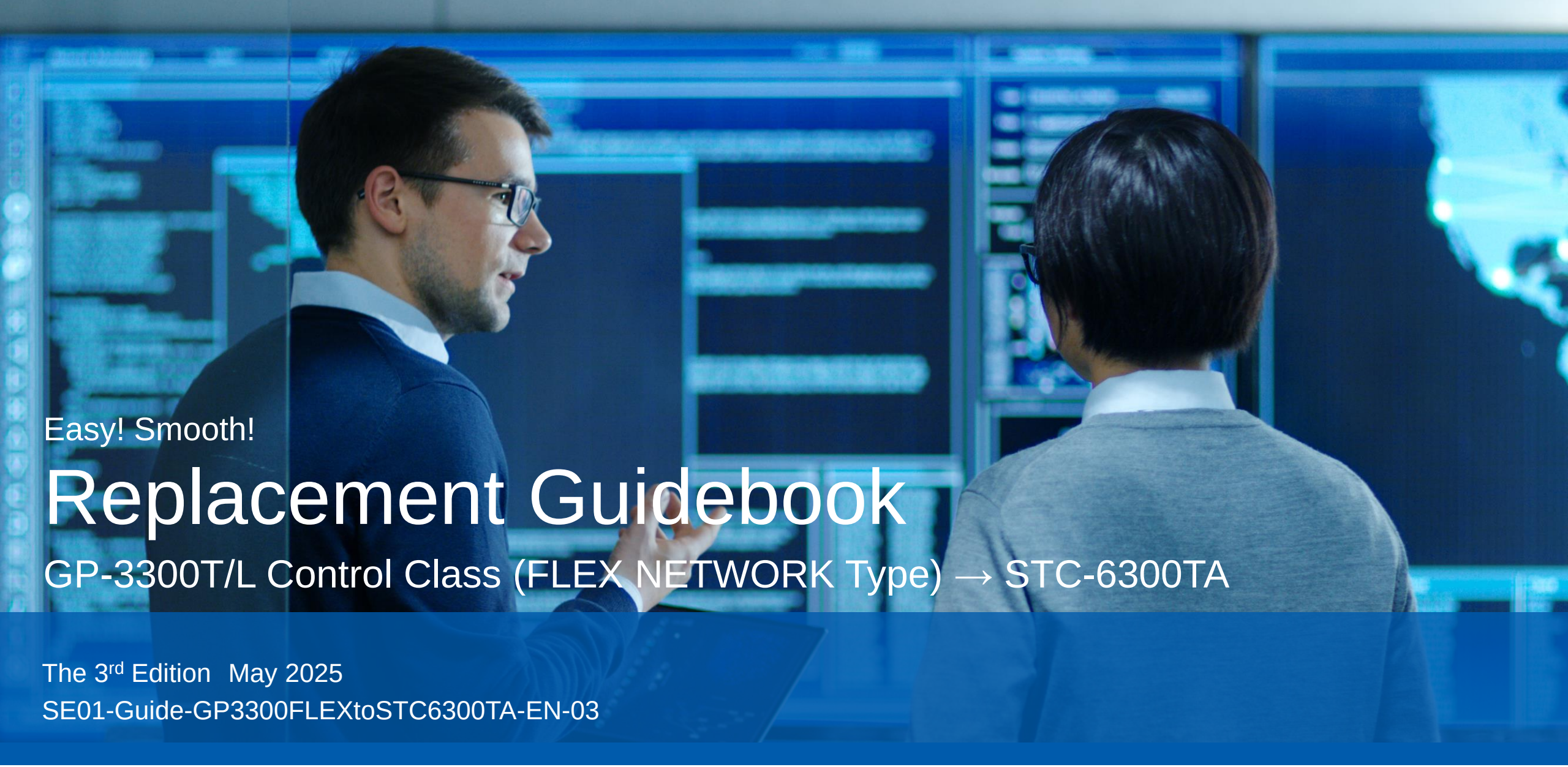

Easy! Smooth!

Replacement Guidebook

GP-3300T/L Control Class (FLEX NETWORK Type) → STC-6300TA

The 3rd Edition May 2025
SE01-Guide-GP3300FLEXtoSTC6300TA-EN-03

*Products may be changed or discontinued without notice. Please check our website for the latest information.

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Update History

Date	Edition	Updated Slide	Description
2024/03/08	1st	-	Newly created
2024/08/23	2nd	49	Added information of the workarounds for Blink function on STC6000 Series
2025/03/03	3rd	14 15 & 17 16 44	Correction: Backup memory type corrected from NVRAM to FLASH EPROM CANopen communication is not supported by STC6000 Updated the supported standards page: certified by EU RO MR (Marine certification) and CCC-Ex Newly supported feature: XY Graph (with GP-Pro EX Ver.5.00.000 or later)

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Safety Information

Important Information

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

NOTICE

NOTICE is used to address practices not related to physical injury.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation and has received safety training to recognize and avoid the hazards involved.

About this book

Document Scope

This guidebook introduces the procedures to replace a unit from “GP3300T/L Control Class (FLEX NETWORK Type)” to “STC-6300TA”.
The recommended substitute models are as follows.

Model in use				Recommended substitutes	
GP-3300T/L Control Class FLEX NETWORK Type	GP-3300T	PFXGP3300TADFN (AGP3300-T1-D24-FN1M)	→	STC-6300TA	PFXSTC6300TADDKE （Sink Output Type） or PFXSTC6300TADDCE （Source Output Type）
	GP-3300L	PFXGP3300LADFN (AGP3300-T1-D24-FN1M)			

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About this book

Validity Note

This documentation is valid for this product.
The technical characteristics of the device(s) described in the present manual also appear online at www.pro-face.com.
The characteristics that are described in the present document should be the same as those characteristics that appear online. In line with our policy of constant improvement, we may revise content over time to improve clarity and accuracy. If you see a difference between the document and online information, use the online information as your reference.

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Related Documents

You can download the manuals related to this product, such as the software manual, from our website.
https://www.proface.com/en/download/search

Product Related Information

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

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by Schneider Electric

About this book

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Remove all power from the device before removing any covers or elements of the system, and prior to installing or removing any accessories, hardware, or cables.
- Unplug the power cable from both this product and the power supply prior to installing or removing the product.
- Always use a properly rated voltage sensing device to confirm power is off where and when indicated.
- Replace and secure all covers or elements of the system before applying power to this product.
- Use only the specified voltage when operating this product. This product is designed to use 24 Vdc. Always check whether your device is DC powered before applying power.
- When using this product in Class I, Division 2, Groups A, B, C, and D hazardous locations, install this product in an enclosure that prevents the operator from touching the back of this product without the use of tools.

Failure to follow these instructions will result in death or serious injury.

Critical alarm indicators and system functions require independent and redundant protection hardware and/or mechanical interlocks.

When you cycle power, wait at least 10 seconds after it has been turned off. If this product is restarted too quickly, it may not operate correctly.

In the event the screen cannot be properly read, for example, if the backlight is not functioning, it may be difficult or impossible to identify a function. Functions that may present a hazard if not immediately executed, such as a fuel shut-off, must be provided independently of this product. The machine's control system design must take into account the possibility of the backlight no longer functioning and the operator being unable to control the machine or making mistakes in the control of the machine.

⚠WARNING

LOSS OF CONTROL

- The designer of any control scheme must consider the potential failure modes of control paths and, for certain critical control functions, provide a means to achieve a safe state during and after a path failure. Examples of critical control functions are emergency stop and overtravel stop, power outage and restart.
- Separate or redundant control paths must be provided for critical control functions.
- System control paths may include communication links. Consideration must be given to the implications of unanticipated transmission delays or failures of the link.
- Observe all accident prevention regulations and local safety guidelines.
- Each implementation of this product must be individually and thoroughly tested for proper operation before being placed into service.
- The machine control system design must take into account the possibility of the backlight no longer functioning and the operator being unable to control the machine, or making errors in the control of the machine.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

For additional information, refer to NEMA ICS 1.1 (latest edition), "Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control" and to NEMA ICS 7.1 (latest edition), "Safety Standards for Construction and Guide for Selection, Installation and Operation of Adjustable-Speed Drive Systems" or their equivalent governing your particular location.

⚠WARNING

UNINTENDED EQUIPMENT OPERATION

- The application of this product requires expertise in the design and programming of control systems. Only persons with such expertise should be allowed to program, install, alter, and apply this product.
- Follow all applicable safety standard, local regulations and directives.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

About this book

⚠WARNING

UNINTENDED EQUIPMENT OPERATION

- Do not use this product as the only means of control for critical system functions such as motor start/stop or power control.
- Do not use this equipment as the only notification device for critical alarms, such as device overheating or overcurrent.
- Use only the software provided with this product. If you use other software, please confirm the operation and safety before use.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

The following characteristics are specific to the LCD panel and are considered normal behavior:

• LCD screen may show unevenness in the brightness of certain images or may appear different when seen from outside the specified viewing angle. Extended shadows, or crosstalk may also appear on the sides of screen images.

• LCD screen pixels may contain black and white colored spots and color display may seem to have changed.

• When experiencing vibrations within a certain frequency range and vibration acceleration is above what is acceptable, the LCD screen may partially turn white. Once the vibration condition ends, the whitening of the screen is resolved.

• When the same image is displayed on the screen for a long period, an afterimage may appear when the image is changed.

• The panel brightness may decrease when used for a long time in an environment continuously filled with inert gas. To prevent deterioration of panel brightness, regularly ventilate the panel. For more information, please contact customer support.
https://www.pro-face.com/trans/en/manual/1015.html

⚠WARNING

SERIOUS EYE AND SKIN INJURY

The liquid in the LCD panel contains an irritant:

- Avoid direct skin contact with the liquid.
- Wear gloves when you handle a broken or leaking unit.
- Do not use sharp objects or tools in the vicinity of the LCD panel.
- Handle the LCD panel carefully to prevent puncture, bursting, or cracking of the panel material.
- If the panel is damaged and any liquid comes in contact with your skin, immediately rinse the area with running water for at least 15 minutes. If the liquid gets in your eyes, immediately rinse your eyes with running water for at least 15 minutes and consult a doctor.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

REDUCTION OF SERVICE LIFE OF PANEL

Change the screen image periodically and try not to display the same image for a long period of time.

Failure to follow these instructions can result in equipment damage.

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Cybersecurity

Cybersecurity Guideline

Use this product inside a secure industrial automation and control system. Total protection of components (equipment/devices), systems, organizations, and networks from cyber attack threats requires multi-layered cyber risk mitigation measures, early detection of incidents, and appropriate response and recovery plans when incidents occur. For more information about cybersecurity, refer to the Pro-face HMI/IPC Cybersecurity Guide.
https://www.proface.com/en/download/manual/cybersecurity_guide

⚠WARNING

POTENTIAL COMPROMISE OF SYSTEM AVAILABILITY, INTEGRITY, AND CONFIDENTIALITY

- Change default passwords at first use to help prevent unauthorized access to device settings, controls and information.
- Disable unused ports/services and default accounts, where possible, to minimize pathways for malicious attacks.
- Place networked devices behind multiple layers of cyber defenses (such as firewalls, network segmentation, and network intrusion detection and protection).
- Apply the latest updates and hotfixes to your Operating System and software.
- Use cybersecurity best practices (for example: least privilege, separation of duties) to help prevent unauthorized exposure, loss, modification of data and logs, interruption of services, or unintended operation.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

目次

1. Summary

On replacement from GP-3300T/L (FLEX NETWORK) to STC-6300TA, the following points are the main points to note.

- STC-6300TA is compatible with Modicon TM3 module, which are recommended as a replacement for FLEX NETWORK I/O unit. For a list of recommended substitutes, please refer to 2-4. Option Compatibility – FLEX NETWORK I/O units. FLEX NETWORK I/O units cannot be used with STC-6300TA.

- There are two ways to connect TM3 modules to STC-6300TA. Please check the next page for details.
  - Connect using [TM3 driver] as the I/O driver. *To connect 3 or more TM3 units, Transmitter/Receiver units (P/N: TM3XTRA, TM3XREC1) are needed.
  - Connect using [EIP driver] as the I/O driver. *EtherNet/IP compatible adapter unit (P/N: TM3BCEIP) is needed.

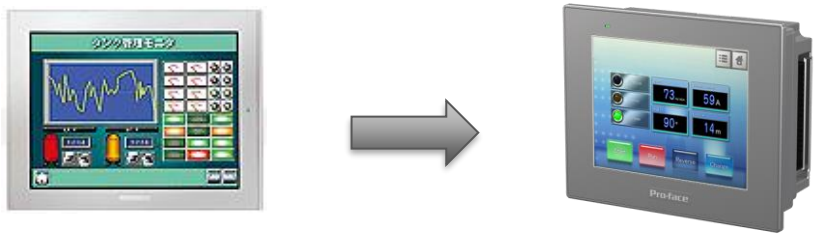
- Since the I/O drivers used are different, the I/O driver settings set in the GP-3300T/L (FLEX NETWORK) project will not be carried over to the STC-6300TA after conversion. You need to configure the I/O driver settings on the software again. For information on how to set up the I/O driver, please refer to Modicon TM3 guidebook for setting up a connection to HMI.

- Display resolution: STC-6300TA has a better resolution. You need to convert resolution by the software to use old project data from GP-3300T/L.

GP-3300T/L	320 x 240 pixels (QVGA)	STC-6300TA	640 x 480 pixels (VGA)

- External dimensions: The panel cut dimensions are the same, but the external dimensions are slightly different. It is necessary to check the dimensions of the HMI installation location.

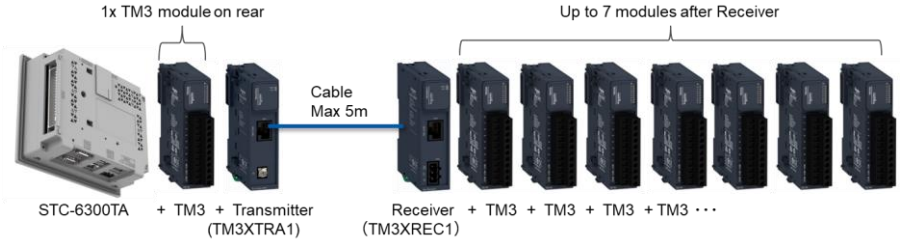
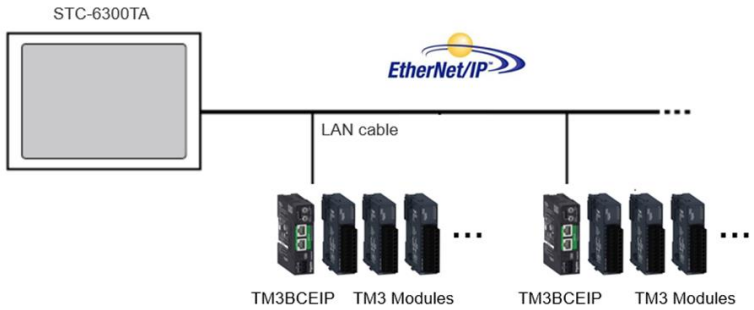
GP-3300T/L	W167.5 x H135 x D59.5 mm	STC-6300TA	W169.5 x H137 x D60 mm



GP-3300T/L　　STC-6300TA

1. Summary

There are two ways to connect TM3 modules to STC-6300TA. Choose one that best suits your environment.

Connection method	Connecting using [TM3 Driver] as the IO driver	Connect using [EIP driver] as the I/O driver *EtherNet/IP compatible adapter unit (P/N: TM3BCEIP) is needed.
Installation Environment	・When adding I/O within 5m distance from STC-6300TA ・When there are fewer than 8x TM3 modules to be added ・ If you want a simple setup	・When adding I/O within 5m~100m distance from STC-6300TA ・ When it is necessary to install on multiple local stations (Can be connected to up to 32x TM3BCEIP) ・If you want to connect to modules such as Safety module (Modicon TM3 Safety) other than digital and analog I/O units.
Configuration image		
Hardware requirements	• STC-6300TA • TM3 modules When connecting 3 or more TM3 modules, the following optional items are required. • Transmitter (TM3XTRA1) • Receiver (TM3XREC1) • Dedicated cable for connecting transmitting and receiving modules	• STC-6300TA • TM3 modules • EtherNet/IP compatible adapter unit (P/N: TM3BCEIP) • Communication cables (LAN)
Software requirements	• GP-Pro EX (TM3 Driver is used as the I/O driver.)	• TM3 Bus Coupler IO Configurator • GP-Pro EX (EIP Driver is used as the I/O driver.)
How to set up	Refer to Chapter 10 “When using TM3 modules as local expansion I/O with STC6000” in Modicon TM3 guidebook for setting up a connection to HMI.	Refer to Chapter 9 “When using TM3 modules as Remote I/O (EtherNet/IP)” in Modicon TM3 guidebook for setting up a connection to HMI.

2. Hardware Section

2-1. GP-3300T/L (FLEX NETWORK) vs STC-6300TA Specification Comparison -1. Basic Information-

		GP-3300T	GP-3300L	STC-6300TA	Points to note when replacing
Display Type		TFT Color LCD	Monochrome LCD	TFT Color LCD	
Display Size		5.7”		5.7”	
Resolution		320 x 240 pixels (QVGA)		640 x 480 pixels (VGA)	Need to change resolution setting by Software
Effective display area (W x H)		115.2 x 86.4 mm		115.2 x 86.4 mm	
Display colors		65,536 colors (no blink) 16,384 colors (with blink)	Black and White (16 shades)	262,144 colors	No blink function
Backlight		White LED (Rev6) CCFL (not Rev6)	CCFL (not user replaceable)	White LED (not replaceable)	Backlight is not replaceable.
Backlight service life		50,000 hours or more (before backlight brightness decreases to 50%)	58,000 hours or more (before backlight brightness decreases to 50%)	50,000 hours or more (before backlight brightness decreases to 25%)	
Brightness control		8 levels (Adjusted with touch panel or software)		16 levels (Adjusted with touch panel or software)	
Touch panel type		Resistive film (analog, single touch)		Resistive film (analog, single touch)	
Touch panel resolution		1,024 x 1,024		1,024 x 1,024	
Touch panel service life		1 million times or more		1 million times or more	
Application memory	Screen area	FLASH EPROM 6MB		FLASH EPROM 64MB	
	Logic Program	FLASH EPROM 132KB (15,000 steps)		FLASH EPROM 132KB (15,000 steps)	
Backup memory	Screen area	SRAM 320KB		FLASH EPROM 320KB	
	Variable area	SRAM 64KB		FLASH EPROM 64KB	
	Battery (clock data backup)	Rechargeable battery / Secondary battery for clock data backup		Replaceable battery / Primary battery for clock data backup	Battery can be replaced by user.
Rate Input Voltage		DC24V (Input voltage limits: DC19.2~28.8V)		DC24V (Input voltage limits: DC19.2~28.8V)	
IP Rating		IP65f, NEMA#250 TYPE 4X/13		IP65f, UL 50/50E, TYPE 1/4X/12/13	
External Dimensions		W167.5 x H135 x D77.6 mm		W169.5 x H137 x D60 mm	The dimensions are different.
Panel Cut Dimensions		W156 x H123.5 mm		W156 x H123.5 mm	
Power Consumption		26W or less		11.3W or less	

2-1. GP-3300T/L (FLEX NETWORK) vs STC-6300TA Specification Comparison -2. Interfaces-

		GP-3300T	GP-3300L	STC-6300TA	Points to note when replacing
Serial I/F	COM1	RS-232C/422/485 (D-Sub 9pin Plug)		RS-232C/422/485 (D-Sub 9pin Plug)	Please refer to 2.5. Other important notes on Hardware in this document.
	COM2	RS-422/485 (D-Sub 9pin Socket)		-	
Ethernet I/F		10BASE-T/100BASE-TX (RJ-45) x1		10BASE-T/100BASE-TX (RJ-45) x1	
USB I/F	Type A	USB 1.1 (Type A) x1 -USB transfer cable (CA3-USBCB-01)		USB 2.0 (Type A) x1	No screen data transfer via Type A
	Micro B	-		USB 2.0 (micro-B) x1 -USB transfer cable(PFXZUSCBMB2) or commercial USB micro-B transfer cable	
CF Card I/F		Yes		-	To keep using the functions that were working with CF Card, use a USB Memory instead.
CANopen I/F		-		-	CANopen communication is not available.
Expansion Unit I/F		Connect Expansion Unit with communication feature		-	The expansion unit (such as CC-LINK Unit) for GP-3300 series cannot be used.
Expansion Module I/F (TM3 module / EX module)		-		TM3 module / EX module x 1 Up to 2x modules by Direct mounting Up to 8x modules by Extension mounting	For Extension mounting, Transmitter (TM3XTRA1) and Receiver (TM3XREC1) are needed.
FLEX NETWORK I/F		Bit variable input: 512 points, Bit variable output: 512 points, Integer variable input: 128 points, Integer variable output: 128 points, Connector: 6pin		-	The recommended substitutes for FLEX NETWORK I/O unit is TM3 module, connecting via EtherNet/IP communication. TM3 bus coupler TM3BCEIP is required as an EtherNet/IP adapter.
DIO I/F	Digital IN/OUT	-		Sink/Source input: 16 points PFXSTC6300TADDKE (Sink output): 16 points PFXSTC6300TADDCE (source output): 16 points Connector: 38 pin	
	HSC (high speed counter) Max.100kHz	-		4x Fast IN (among 16 IN)	
	PTO (pulse train output) Max. 65kHz	-		4x Fast OUT (among 16 OUT)	

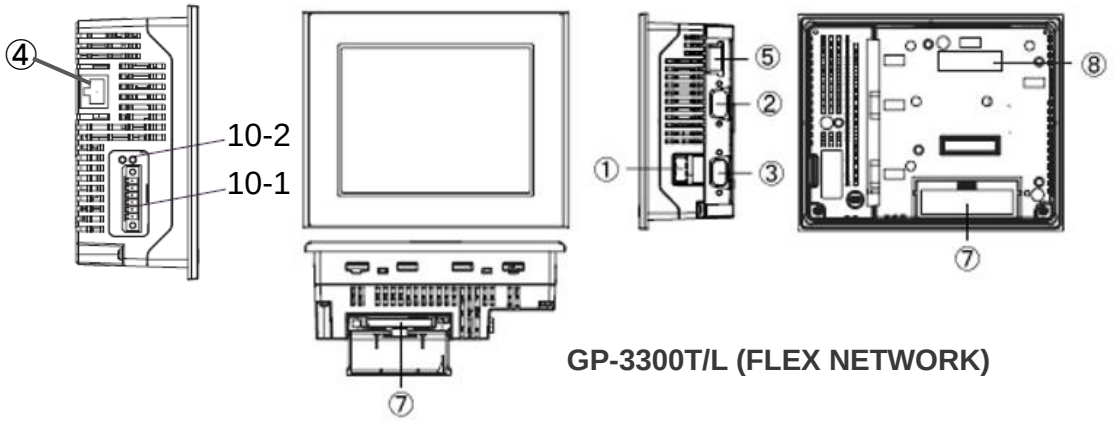
NOTE: For more details about specification, please refer to STC6000 Hardware Manual.

2-2. Standards Compatibility

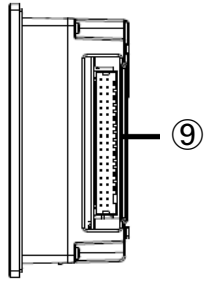
Certification	GP-3300T/L (FLEX NETWORK)	STC-6300TA
CE (EN61000-6-4, EN61000-6-2, EN61131-2)	✓	✓
UKCA	-	✓
UL/cUL	✓ (UL508) (CSA C22.2 No.142)	✓ (UL61010-2-201) (CSA C22.2 No.61010-2-201)
UL/cUL Class 1, Div. 2	✓ (ANSI/ISA12.12.01) (CSA C22.2 No213)	✓ (UL121201) (CSA C22.2 No213)
ATEX (Zones 2/22, equipment category 3 Gas Dust)	✓	✓
IECEx (Zones 2/22, equipment category 3 Gas Dust)	-	✓
UKEX (covered by IECEx)	-	✓
KCs	-	-
NEPSI → CCC-Ex	-	✓
RCM (C-Tick)	-	✓
EAC (GOST-R)	✓	✓
RoHS for EU	✓	✓
RoHS for China	✓	✓
REACH	✓	✓
CCC *apply for CCC exemption	-	-
KC	✓	✓
Marine	-	EU RO MR *1
WEEE	✓	✓

*1: For information about EU RO MR, refer to our Pro-face website.

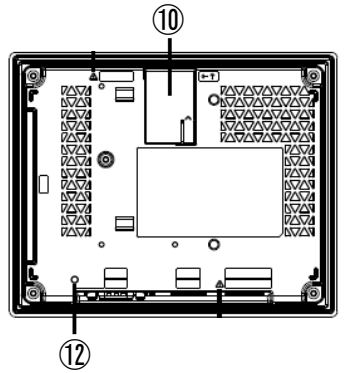
2-3. Interface Compatibility



GP-3300T/L (FLEX NETWORK)

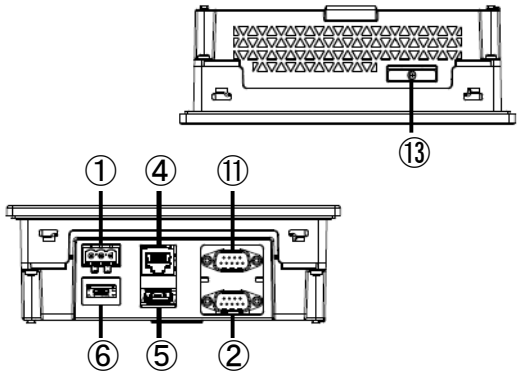


STC-6300TA Right



STC-6300TA Rear

STC-6300TA Top



STC-6300TA Bottom

	GP-3300T/L (FLEX NETWORK)	STC-6300TA
①	Power Connector (DC)	Power Connector (DC)
②	Serial Interface (COM1)	Serial Interface (COM1)
③	Serial Interface (COM2)	-
④	Ethernet Interface	Ethernet Interface
⑤	USB (Type A) Interface	USB (Type A) Interface
⑥	-	USB (micro-B) Interface
⑦	CF Card Interface	-
⑧	Expansion Unit Interface (for expansion units)	-
⑨	-	DIO Interface
⑩	10-1: FLEX NETWORK Interface, 10-2: FLEX NETWORK Status LED	Expansion Module Interface (for TM3 / EX module connection)
⑪	-	CANopen Interface *1
⑫	-	CANopen LED *1
⑬	-	Battery Slot

*1: CANopen communication is not available.

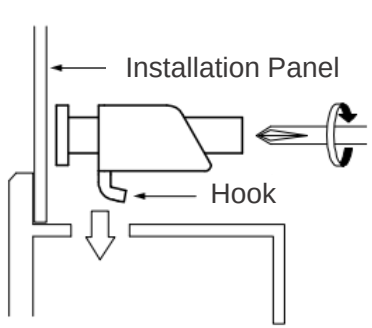
NOTE: Please be careful when replacing, as the wiring will change significantly. Please check STC6000 Series Hardware Manual for details such as interface specifications and pin assignments

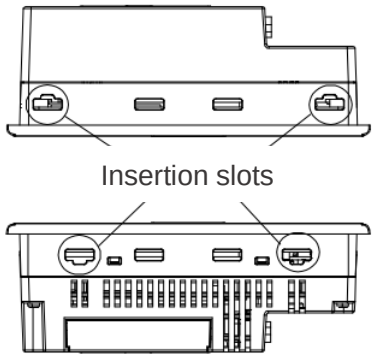
2-4. Installation Method Compatibility

Panel cut dimensions and installation method are the same between GP-3300T/L and STC-6300TA.

GP-3300T/L

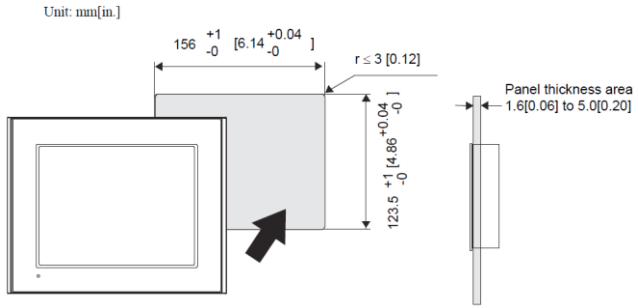
The product can be installed easily by using a screwdriver.
The necessary torque is 5 N•m.





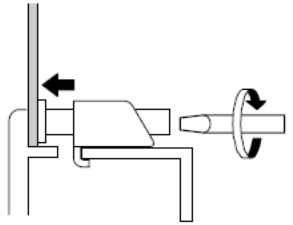
■ Panel Cut Dimensions

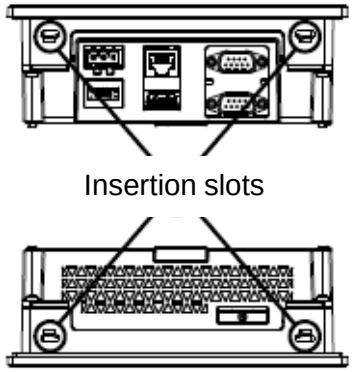
A: 156 mm (+1/-0 mm)
B: 123.5 mm (+1/-0 mm)
C: 1.6～5.0 mm



STC-6300TA

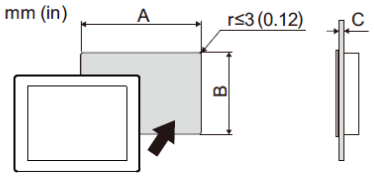
The product can be installed easily by using a screwdriver.
The necessary torque is 5 N•m.





■ Panel Cut Dimensions

A: 156 mm (+1/-0 mm)
B: 123.5 mm (+1/-0 mm)
C: 1.6～5.0 mm



Model name		
A	B	C
156 mm (+1/-0 mm) (6.14 in [+0.04/-0 in])	123.5 mm (+1/-0 mm) (4.86 in [+0.04/-0 in])	1.6...5 mm (0.06...0.2 in)

NOTE: Installation fastener of GP-3300 (P/N: CA3-ATFALL-01) cannot be used for STC-6300TA. For STC-6300TA, please use the fastener of STC6000 Series (P/N: PFXZC3AT1). Please check STC6000 Hardware Manual for installation requirements and procedure.

2-5. Option compatibility – Serial Interface

Product Name	GP-3300T/L	STC-6300TA	Description	Compatibility
RS-232C Cable (5m)	CA3-CBL232/5M-01	CA3-CBL232/5M-01	Cable for RS-232C connection between various hosts and this product	✔
RS-422 Cable (5m)	CA3-CBL422/5M-01	CA3-CBL422/5M-01	Cable for RS-422 connection between various hosts and this product (Socket Type)	✔
RS-422 Cable (5m)	CA3-CBL422-01	CA3-CBL422-01	Cable for RS-422 connection between various hosts and this product (Plug Type)	✔
Mitsubishi PLC A-Series Connection Cable (5m)	CA3-CBLA-01	CA3-CBLA-01	Cable for directly connecting an A Series CPU	✔
Mitsubishi PLC Q-Series Connection Cable (5m)	CA3-CBLQ-01	CA3-CBLQ-01	Cable for directly connecting a Q Series CPU	✔
Mitsubishi PLC Q-Series Link Cable (5m)	CA3-CBLLNKMQ-01	CA3-CBLLNKMQ-01	Cable for directly connecting a Q Series Link Unit	✔
Mitsubishi PLC FX-Series Connection Cable	CA3-CBLFX/1M-01 (1m) CA3-CBLFX/5M-01 (5m)	CA3-CBLFX/1M-01 (1m) CA3-CBLFX/5M-01 (5m)	Cable for directly connecting an FX Series CPU	✔
Omron PLC SYSMAC Link Cable (5m)	CA3-CBLSYS-01	CA3-CBLSYS-01	Cable for directly connecting a SYSMAC Link Unit	✔
Siemens TTY Converter Cable (5m)	CA6-CBLTTY/5M-01	CA6-CBLTTY/5M-01	Cable for connecting a PLC S5 series to this product	✔
MPI Cable (3.5m)	ST03-A2B-MPI21-PFE GP3000-MPI21-PFE CA3-MPI-PG1-PFE CA3-MPI-PGN-PFE	ST03-A2B-MPI21-PFE	Connects a host controller to this product for MPI communication.	✔
Multi-Link Cable (5m)	CA3-CBLMLT-01 * End of sale	CA3-CBLMLT-01 * End of sale	Connects a host controller to this product for multi-link (n:1) communication.	✔
	-	PFXZCBCBML1		NEW

2-5. Option compatibility – Serial Interface

Product Name	GP-3300T/L	STC-6300TA	Description	Compatibility
RS-232C 9-pin/25-pin Conversion Cable (20cm)	CA3-CBLCBT232-01	CA3-CBLCBT232-01	Cable for converting a D-Sub 9-pin plug to a D-Sub 25-pin socket	✔
RS-422C 9-pin/25-pin Conversion Cable (20cm)	CA3-CBLCBT422-01 *End of sale	CA3-CBLCBT422-01 *End of sale	Cable for converting a D-Sub 9-pin plug to a D-Sub 25-pin socket	✔
	-	PFXZCBCBCVR41		NEW
2 Port Adapter Cable (5m)	CA3-MDCB11 *End of sale	CA3-MDCB11 *End of sale	Connects Mitsubishi PLC to this product using 2 port adapter II (RS-422).	✔
	-	PFXZCBCBMD1		NEW
Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II	GP070-MD11 *End of sale	GP070-MD11 *End of sale	Allows simultaneous use of this product and a Mitsubishi PLC A, QnA, FX Series peripheral device.	✔
COM Port Conversion Adapter	CA3-ADPCOM-01 *End of sale	CA3-ADPCOM-01 *End of sale	Connects optional RS-422 communication items to serial interface.	✔
	-	PFXZC3ADCM1		NEW
RS-422 Terminal Block Conversion Adapter	-	PFXZCBADTM1	Connects output from a serial interface (D-sub 9 pin plug) directly to an RS-422 terminal block.	NEW
Terminal Block Conversion Adapter	CA3-ADPTRM-01	CA3-ADPTRM-01	Connects output from a serial interface (D-sub 9 pin socket) directly to an RS-422 terminal block.	✔
RS-232C Isolation Unit *1	CA3-ISO232-01	CA3-ISO232-01	Connects a host controller to this product and provides isolation (RS-232C and RS-422 are switchable).	✔
RS-485 Isolation Unit	CA3-ISO485-01	-	Connects a host controller to this product with provides isolation. (RS-422 and RS-485 are switchable.)	-
On-line adapter	CA4-ADPONL-01	-	Terminal adapter in the case of performing RS-422/RS-485 communication at COM2 port.	-
Siemens COM Port Conversion Adapter	CA3-ADPSEI-01	-	Connects Siemens PLCs to the AGP. (for RS-485 communication)	-

*1 To use RS-232C Isolation Unit, set the pin #9 of COM port to VCC.

2-5. Option compatibility – USB Interface

Product Name	GP-3300T/L	STC-6300TA	Description	Compatibility
USB Transfer Cable (2m)	CA3-USBCB-01	-	Cable for transferring screen data between a PC (USB Type A) and this product (USB Type A)	- A to A screen transfer is not available.
USB Transfer Cable	-	PFXZUSCBMB2	Cable for transferring screen data from a PC (USB Type A) to this product (USB micro-B)	**NEW**
USB Cable (5m)	FP-US00	FP-US00	Connects a USB printer (Type B)	✔
USB Front Cable (1m)	CA5-USBEXT-01	CA5-USBEXT-01	Extension cable that attaches USB interface (Type A) to front panel	✔
USB (micro-B) Front Cable	-	PFXZCIEXMB2	Extension cable that attaches USB interface (micro-B) to front panel	**NEW**
USB Clamp Type A (1 port)	-	PFXZCBCLUSA1	Clamp to prevent disconnection of USB cable (USB/A, 1 port, 5 clamps/set)	**NEW**
USB-Serial (RS-232C) Conversion Cable (0.5m)	CA6-USB232-01	CA6-USB232-01	Cable for converting a USB interface into a serial interface (RS-232C)	✔
USB/RS-422/485 Conversion Adapter	-	PFXZCBCBCVUSR41	Adapter for connecting this product (USB Type A) to an external device (RS-422/RS-485)	**NEW**
EZ Tower Light tube mounting fixing plate	PFXZCETWHA1 *1	PFXZCETWHA1	USB Connection Type Monolithic EZ Tower Light tube mounting with fixing plate 3 tiers, Ø60, lighting and flashing with a buzzer	✔
EZ Tower Light with base mounting	PFXZCETWW1 *1	PFXZCETWW1	USB Connection Type Monolithic EZ Tower with base mounting 3 tiers, Ø60, lighting and flashing with a buzzer	✔
EZ Illuminated Switch	-	PFXZCCEUSG1	A unit of 5 illuminated switches with multiple color LED easily connected with this product unit via USB	**NEW**
EZ LAN Adapter	-	PFXZCGEUUE1	An adapter to expand an Ethernet port to HMI	**NEW**

*1: This product cannot use for GP-3300 Series that is before Rev.3.

2-5. Option compatibility – Other options

Product Name	GP-3300T/L	STC-6300TA	Description	Compatibility
CF Card (128MB)	CA3-CFCALL/128MB-01	-	CF Card to insert into the CF card slot of this product.	-
CF Card (256MB)	CA3-CFCALL/256MB-01	-		-
CF Card (512MB)	CA3-CFCALL/512MB-01	-		-
CF Card (1GB)	CA3-CFCALL/1GB-01	-		-
CF Card (2GB)	CA3-CFCALL/2GB-01	-		-
CF Card Adapter	GP077-CFAD10	-	Used for read/write of CF Card data via a PC's PCMCIA slot.	-
Screen Protection Sheet	CA3-DFS6-01	-	Disposable, dirt-resistant sheet (5 sheets/set).	**NEW** Use the option for STC6000 series.
	-	PFXZCBDS61		
UV Protection Sheet	-	PFXZCFUV61	Sheet to protect the display from ultraviolet light, for 5.7-inch screen (1 sheet).	**NEW**
Protective Cover	CA4-DCMDL-01	-	The installation of the cover is to protect Display from leaking liquid and raise resistant performance against chemical substance (5 sheets)	-
Environment Cover		PFXZCBOP61	Disposable, environmental resistant cover for 5.7-inch screen (1 sheet).	**NEW**

Product Name	GP-3300T/L	STC-6300TA	Description	Compatibility
TM3 Ethernet Bus Coupler	-	TM3BCEIP	distributed IO module, Modicon TM3, IP20 optimized bus coupler, Ethernet interface	**NEW**
Transmitter	-	TM3XTRA1	Remote transmitter module	**NEW**
Receiver	-	TM3XREC1	Remote receiver module	**NEW**

2-5. Option compatibility – Expansion Unit

Product Name	GP-3300T/L	STC-6300TA	Description	Compatibility
PROFIBUS-DP Slave Unit	PFXZC5EUPFS (CA5-PFSALL/EX-01)	-	Expansion Unit for connecting GP to PROFIBUS network or communicating with a PROFIBUS-DP master.	-
Device Net Slave Unit	PFXZC6EUDNS1 (CA6-DNSALL/EX-01)	-	Expansion Unit for connecting GP to DeviceNet network or communicating with a DeviceNet master.	-
CC-Link Unit	PFXZC7EUCL1 (CA7-CCLALL/EX-01)	-	Expansion Unit for connecting GP to CC-Link network or communicating with a CC-Link master.	-
CANopen Slave Unit	PFXZC9EUCA1 (CA9-CANALL/EX-01)	-	Expansion unit, for communicating with the CANopen master and connecting the GP to a CANopen network.	-

NOTE: These expansion units for GP-3300T/L cannot be used for STC-6300TA.

2-5. Option compatibility – FLEX NETWORK I/O units

Product Name	GP-3300T/L	STC-6300TA	Description	Recommended TM3 module
FLEX NETWORK 16-Point Input Sink Source Type I/O Unit	FN-X16TS41 *End of sale before 2011/12/31	Use TM3 module	16-point sink/source shared I/O Unit. DC24V input signal can be connected.	TM3DI16
FLEX NETWORK 32-Point Input Sink Source Type I/O Unit	PFXZFNX32TS (FN-X32TS41)	Use TM3 module	32-point sink-source shared I/O Unit. DC24V input signal can be connected.	TM3DI32K
FLEX NETWORK 16-Point Output Sink Type I/O Unit	FN-Y16SK41 *End of sale before 2011/12/31	Use TM3 module	16-point output sink I/O Unit.	TM3DQ16UK
FLEX NETWORK 16-Point Output Source Type I/O Unit	FN-Y16SC41 *End of sale before 2011/12/31	Use TM3 module	16-point output source I/O Unit.	TM3DQ16TK
FLEX NETWORK 8-Point Input Sink Source / 8-Point Transistor Output Sink Type I/O Unit	FN-XY08TS41 *End of sale before 2011/12/31	Use TM3 module	8-point input sink-source and 8-point transistor output sink mixed I/O unit. Both DC24V input signals and DC24V output (load current: 200mA max.) devices can be connected.	TM3DI8 TM3DQ8U
FLEX NETWORK 16-Point Input Sink Source / 16-Point Transistor Output Sink Type I/O Unit	PFXZFNXY16K (FN-XY16SK41)	Use TM3 module	16-point input sink-source and 16-point transistor output sink mixed I/O unit. Both DC24V input signals and DC24V output (load current: 200mA max./1.6A/common) devices can be connected.	TM3DI16 TM3DQ16UK
FLEX NETWORK 16-Point Input Sink Source / 16-Point Transistor Output Source Type I/O Unit	PFXZFNXY16C (FN-XY16SC41)	Use TM3 module	16-point input sink-source and 16-point transistor output source mixed I/O unit. Both DC24V input signals and DC24V output (load current: 200mA max./1.6A/common) devices can be connected.	TM3DI16 TM3DQ16TK
FLEX NETWORK 32-Point Input Sink Source / 32-Point Transistor Output Sink Type I/O Unit	PFXZFNXY32K (FNXY32SKS41)	Use TM3 module	32-point input sink-source and 32-point transistor output sink mixed I/O unit. Both DC24V input signals and DC24V output (load current: 200mA max./1.6A/common) devices can be connected.	TM3DI32K TM3DQ32UK
FLEX NETWORK 8-Point Relay Output / 1 Common Type I/O Unit	FN-Y08RL41 *End of sale before 2011/12/31	Use TM3 module	8-point relay output (1 common) I/O Unit. Up to AC240V (1A) load current can be connected.	TM3DQ8R

2-5. Option compatibility – Option for FLEX NETWORK type

Product Name	GP-3300T/L	STC-6300TA	Description	Recommended TM3 module
FLEX NETWORK 2-Channel Analog/Digital Conversion Input Unit	PFXZFNAD2 (FN-AD02AH41)	Use TM3 module	Converts 2-channel analog signals to digital signals at 12-bit resolution.	TM3AI2H *1
FLEX NETWORK 2-Channel Digital/Analog Conversion Output Unit	PFXZFNDA2 (FN-DA02AH41)	Use TM3 module	Converts 2-channel 12-bit digital signal to analog signal and sends output.	TM3AI4 *1
FLEX NETWORK 4-Channel Analog/Digital Conversion Input Unit	PFXZFNDA3 (FN-AD04AH11)	Use TM3 module	Converts 4-channel analog signals to digital signals at 12-bit resolution.	TM3AQ2 *1
FLEX NETWORK 4-Channel Digital/Analog Conversion Output Unit	PFXZFNDA4 (FN-DA04AH11)	Use TM3 module	Converts 4-channel 12-bit digital signal to analog signal and sends output.	TM3AI4 *1

*1 There's some specification differences between FLEX NETWORK and TM3 analog units. For the details, refer to Analog Unit Comparison – FLEX NETWORK vs TM3 in this document.

Product Name	GP-3300T/L	STC-6300TA	Description	Compatibility
FLEX NETWORK Single-Axis Positioning Unit	FN-PC10SK41 *End of sale before 2011/12/31	-	Both of this unit and GP can store positioning data. Motor driver connection cable (FNPC10CB01) is required.	-
Teaching Loader for Single-Axis Positioning Unit	FN-PC10LD41 *End of sale before 2011/12/31	-	Programmer for Single-Axis Positioning Unit. Allows entry, editing and operation checking of high-precision positioning data. (5m cable included)	-
FLEX NETWORK High Speed Counter Unit	FN-HC10SK41 *End of sale before 2011/12/31	-	High performance High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output.	-
FLEX NETWORK Communication Cable	FN-CABLE2010-31-MS (10m) *End of sale before 2011/12/31	-	Connect GP units with FLEX NETWORK units.	-
	PFXZCBFN50 (50m) (FN-CABLE2050-31-MS)	-		-
	PFXZCBFN200 (200m) (FN-CABLE2200-31-MS)	-		-
Motor Driver Connection Cable	FN-PC10CB01 (1m) *End of sale before 2011/12/31	-	Connects the FLEX NETWORK single-axis positioning unit and the servo and stepping drivers.	-

2-5. Option compatibility – Maintenance options

Product Name	GP-3300T/L	STC-6300TA	Description	Compatibility
Installation Fastener	CA3-ATFALL-01	-	Installation fastener (4 pieces/set)	**NEW** Use the option for STC6000 series.
	-	PFXZC3AT1		
Installation Gasket	CA3-WPG6-01	-	Provides dust and moisture resistance when this product is installed into a solid panel (1 piece).	**NEW** Use the option for STC6000 series.
	-	PFXZHWG31		
Connector Cover	CA3-BUSCVR-01	-	Protects this product's rear face connector	-
USB Cable Clamp (1 port)	CA5-USBATM-01	-	USB Cable clamp for 2 port products to prevent disconnection	-
DC Power Supply Connector	CA5-DCCNM-01	CA5-DCCNM-01	Connector to connect DC power supply cables	✔
Battery for Data Backup	-	PFXZGEBT1	Primary battery for memory and time data backup (1 piece)	**NEW**
Panel Cutout Adapter	CA4-ATM5-01	-	Panel cutout adapter for mounting GP-3300 series in cutout of GP-37W2B	-
DIO Connector	-	PFXZC7CNXY321	Connectors for interfacing with external I/O devices (5 pieces/set).	**NEW**
TM3 Module Securing Hook	-	PFXZHMSH1	TM3 module securing hook (1 piece)	**NEW**
FLEX NETWORK Connector	CA6-FNCNALL-01	-	Connector attached to the FLEX NETWORK interface. Connects the FLEX NETWORK communication cable. (Set of 5 connectors)	-
Single-Axis Teaching Loader Cable	FN-LD10CBL (5m) *End of sale before 2011/12/31	-	Connects the FLEX NETWORK single axis positioning unit and the single-axis teaching loader.	-

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2-6. Other Important Notes on Hardware

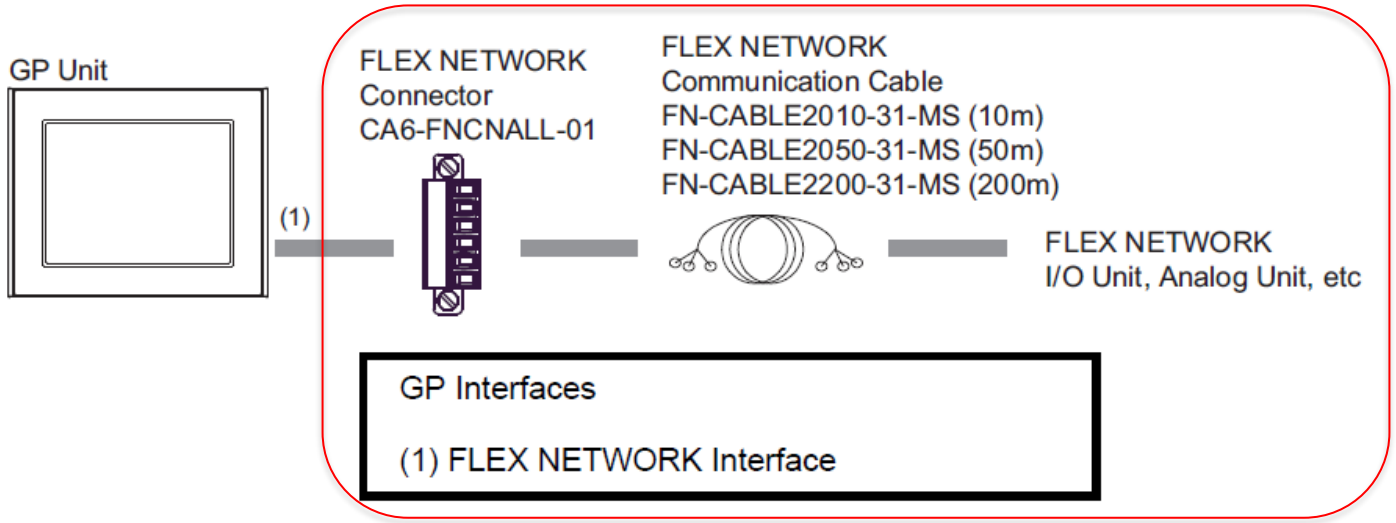
- About Serial Interface
  - The Serial Interface specifications (such as pin assignment and the shape of plug/socket) of STC-6300TA are different from GP-3300T/L. For the details, refer to STC6000 Hardware Manual.
  - The RS-232C/422/485 device that was connected via COM1 on GP-3300T/L will be connected via COM1 on STC-6300TA. (The same cable connection can be used.)
  - The RS-422/485 device that was connected via COM2 on GP-3300T/L will be connected via COM1 on STC-6300TA. (The same cable connection can be used, but conversion cable is required.)
    Before STC-6300TA is connected, be sure to change the port setting to "COM1" in "Device/PLC Settings“ on GP-Pro EX.
    Also, please check the communication settings again with "GP-Pro-EX Device/PLC Connection Manual“ just in case.
  - If you have configured GP-3300T/L to connect both COM1 and COM2 to connected devices, you will only be able to connect them via COM1 when replacing to STC-6300TA. In this case, change either COM1 or COM2 to other communication method.
  - By using “USB/RS-422/485 Conversion Adapter”, you can use the USB interface of STC-6300TA as RS-422/485 Serial Interface. For the details, refer to “USB/RS-422/485 Conversion Adapter Installation Guide”.
    As the connectable devices with USB/RS-422/485 Adapter are limited, please also refer to “USB/RS-422/485 Conversion Adapter Connection Guide” to see the list of supported drivers.

2-6. Other Important Notes on Hardware

- Do not expose the hardware to direct sunlight. Recommend to use the option item “UV Protection Sheet” to protect the display from ultraviolet light.
- This product is not designed for outdoor use. UL certification obtained is for indoor use only.
- Do not turn on the hardware if condensation has occurred inside the device.
- The panel brightness may decrease when used for a long time in an environment continuously filled with inert gas. Please ventilate the control panel periodically.

2-7. TM3 Connection with TM3 Driver – When using [TM3 Driver] as the I/O Driver

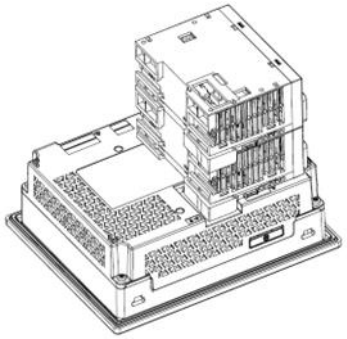
- **System configuration – GP-3300T/L FLEX NETWORK type**



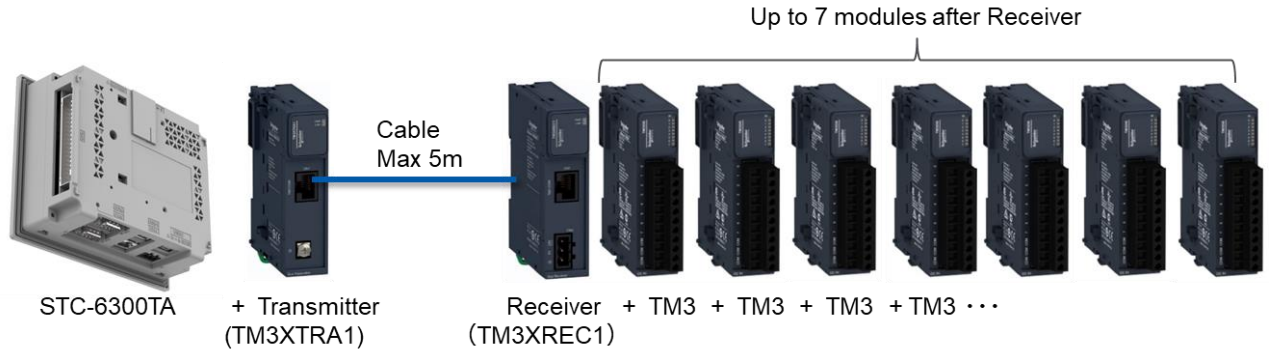
FLEX NETWORK related options cannot be used for STC-6300TA.

- **System configuration – STC-6300TA + TM3 modules**

Able to connect up to 2 units of TM3 modules on the rear of STC-6300TA

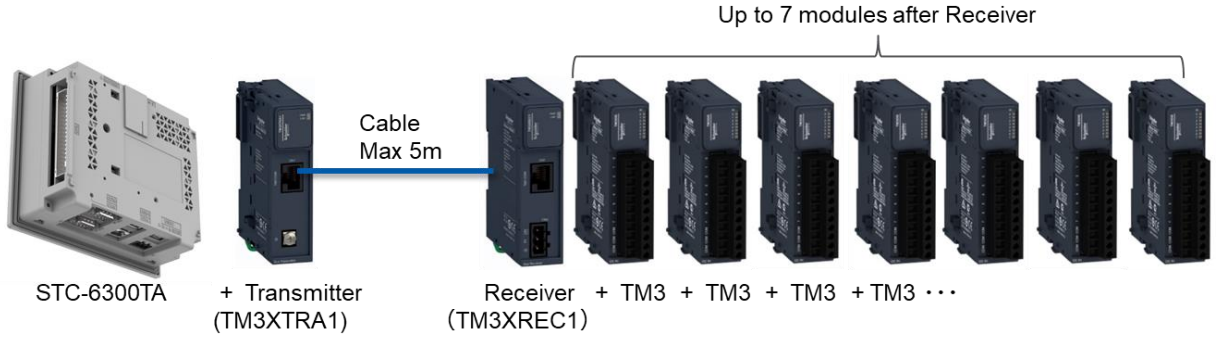


Extension mounting with Transmitter and Receiver when connecting 3 units or more of TM3 modules



2-7. TM3 Connection with TM3 Driver – When using [TM3 Driver] as the I/O Driver

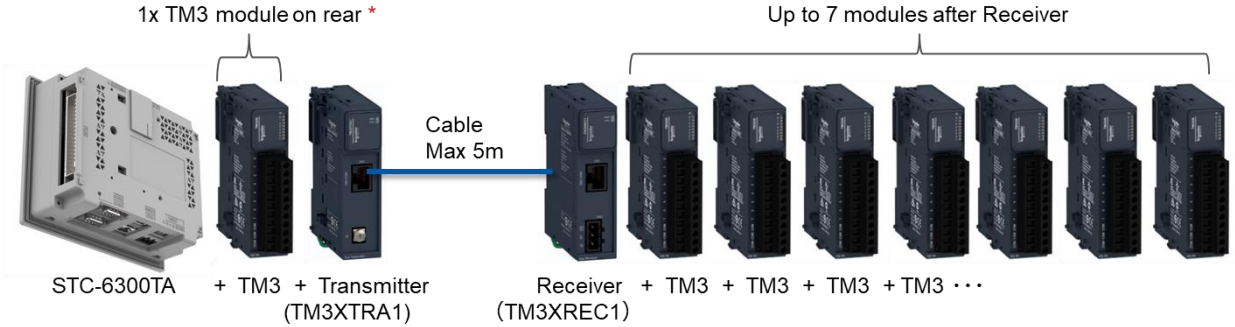
- Up to 7 modules can be connected after Receiver module.



The following option items are required to connect TM3 modules by Extension mounting.

Reference	Description / Usage / Length etc.		
TM3XTRA1	Modicon TM3 Remote Transmitter Module		
TM3XREC1	Modicon TM3 Remote Receiver Module		
ACTPC6FULS05WE	Cat6 Patch Cord F/UTP LSZH, WHITE	Cable for connecting the Transmitter to the Receiver.	0.5m
ACTPC6FULS10WE			1m
ACTPC6FULS20WE			2m
ACTPC6FULS30WE			3m
ACTPC6FULS50WE			5m

- Up to 8 modules can be connected by the following configuration (1x TM3 on rear, 7x TM3 by Extension Mounting)



* When mounting one TM3 module and one transmitter module on the rear of STC6000 Series, mount TM3 module first, and then mount the transmitter module as a 2nd unit.

NOTE：For configuration method, refer to Chapter 10 “When using TM3 modules as local expansion I/O with STC6000” in Modicon TM3 guidebook for setting up a connection to HMI.

2-7. TM3 Connection with TM3 Driver – When using [TM3 Driver] as the I/O Driver

Connectable TM3 Modules when using TM3 Driver :

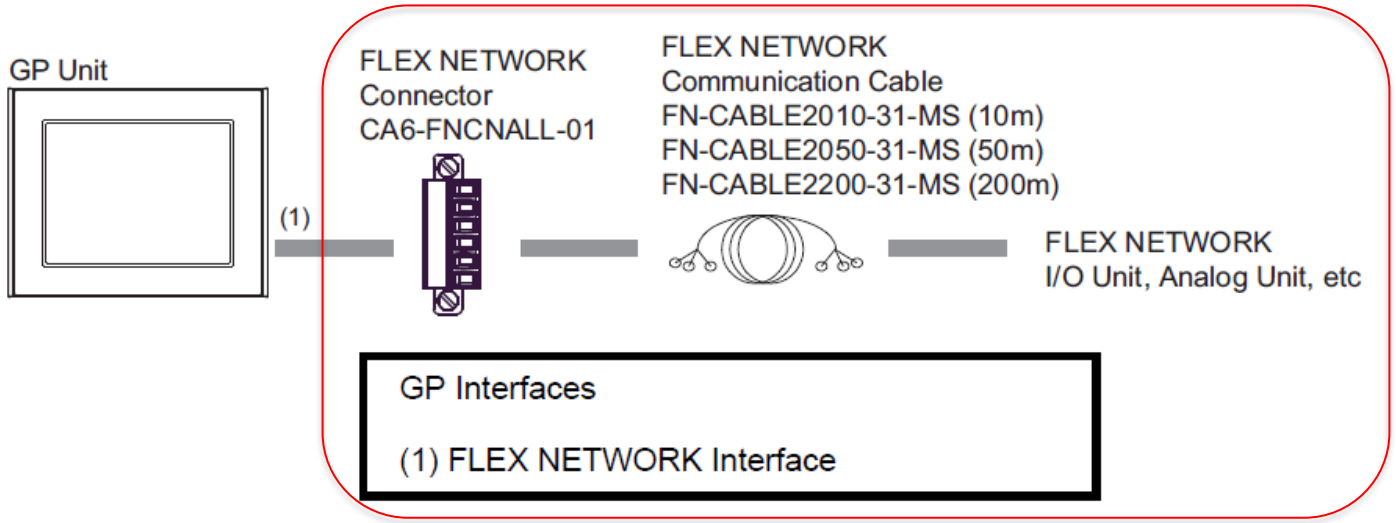
Type	TM3 module name		
	Screw type	Spring type	HE10
Digital Input Module	TM3DI8	TM3DI8G	-
	TM3DI8A	-	
	TM3DI16	TM3DI16G	TM3DI16K
	-	-	TM3DI32K
Digital Output Module	TM3DQ8R	TM3DQ8RG	-
	TM3DQ16R	TM3DQ16RG	-
	TM3DQ8U	TM3DQ8UG	-
	TM3DQ8T	TM3DQ8TG	
	TM3DQ16U	TM3DQ16UG	TM3DQ16UK
	TM3DQ16T	TM3DQ16TG	TM3DQ16TK
	-	-	TM3DQ32UK
	-	-	TM3DQ32TK
Digital Input / Output Module	TM3DM8R	TM3DM8RG	-
	TM3DM24R	TM3DM24G	-
Analog Module	TM3AI2H	TM3AI2HG	-
	TM3AI4	TM3AI4G	-
	TM3TI4	TM3TI4G	-
	TM3TI4D	TM3TI4DG	-
	TM3AI8	TM3AI8G	
	TM3TI8T *1	TM3TI8TG *1	
	TM3AQ2	TM3AQ2G	
	TM3AQ4	TM3AQ4G	
	TM3TM3	TM3TM3G	
	TM3AM6	TM3AM6G	

*1 Plan to be supported

For a list of recommended TM3 modules as a substitute of FLEX NETWORK unit, please refer to 2-5. Option Compatibility – FLEX NETWORK I/O units.

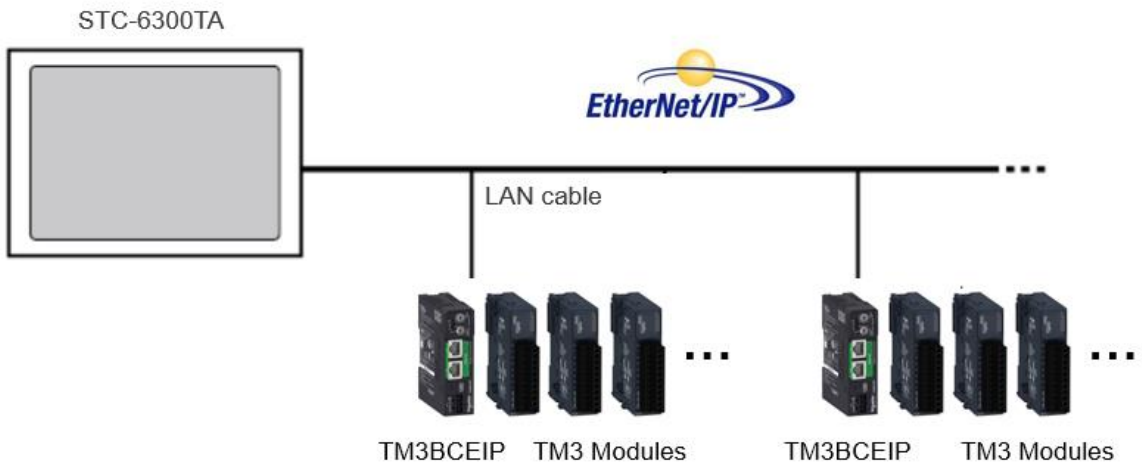
2-8. TM3 Connection with EtherNet/IP – When using [EIP driver] as the I/O driver (use TM3BCEIP)

- **System Configuration – GP-3300T/L FLEX NETWORK Type**



FLEX NETWORK related options cannot be used for STC-6300TA.

- **System Configuration – STC-6300TA + TM3BCEIP + TM3 Module**



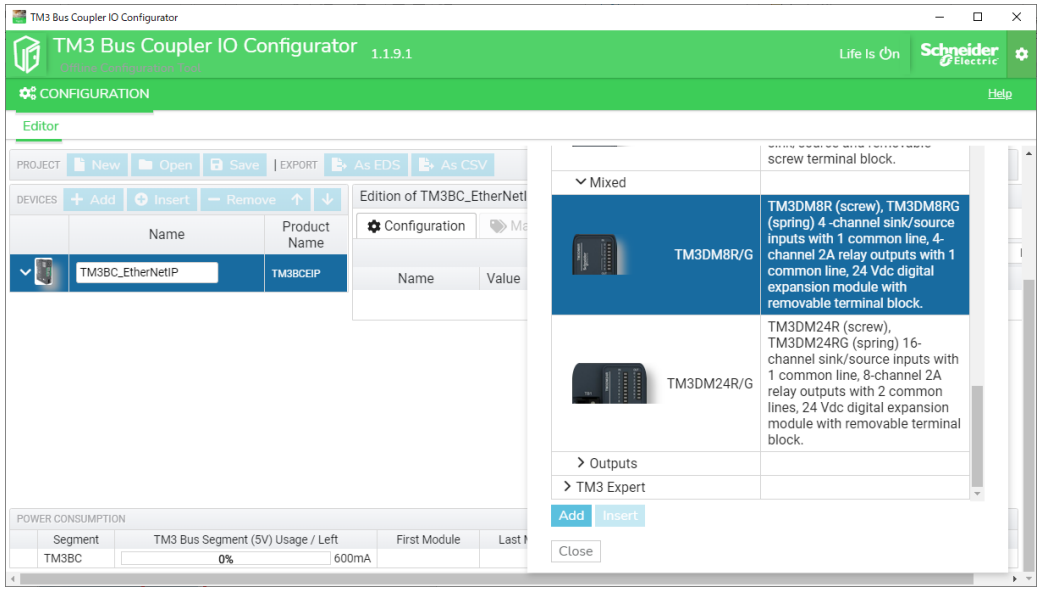
For a list of recommended TM3 modules as a substitute of FLEX NETWORK unit, please refer to 2-5. Option Compatibility – FLEX NETWORK I/O units.

All TM3 modules supported by TM3BCEIP can be used for this EtherNet/IP connection.
Safety modules (Modicon TM3 Safety) can also be connected. For details, refer to the TM3BCEIP hardware manual.

2-8. TM3 Connection with EtherNet/IP – When using [EIP driver] as the I/O driver (use TM3BCEIP)

Below is the configuration overview to connect STC-6300TA with TM3BCEIP.

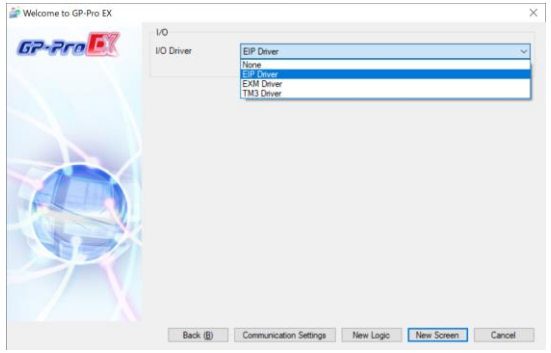
Configure TM3BCEIP by TM3BC IO Configurator.



SPF file

Download the configuration to TM3BCEIP via USB

EDS file



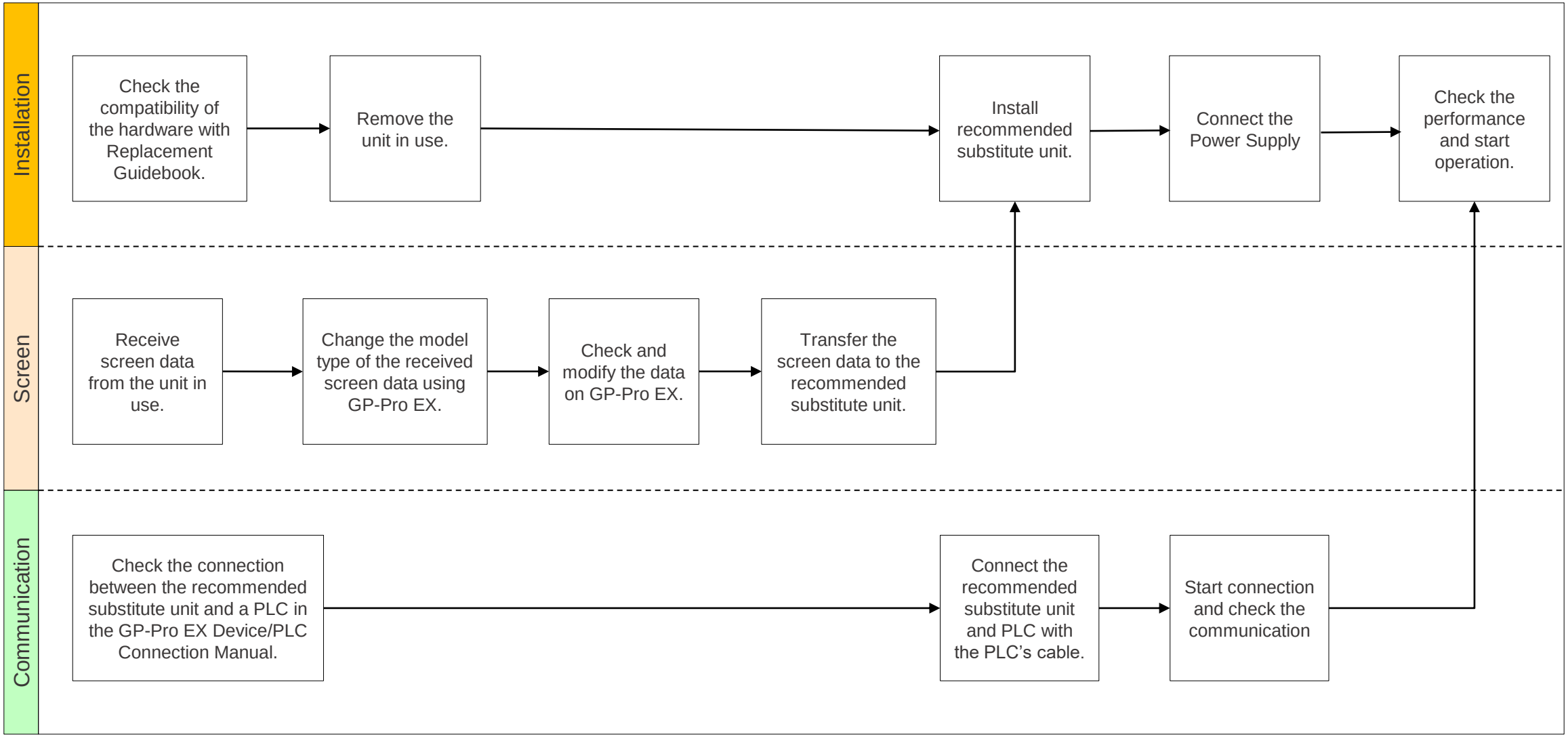
Select [EIP Driver] as the I/O Driver. Import the EDS file to GP-Pro EX and set up the network configuration, etc.

Download the project to STC-6300TA

For the detailed setup procedure, please refer to Modicon TM3 guidebook for setting up a connection to HMI.

3. Software Section

3-1. Replacement Procedure – Workflow



3-1. Replacement Procedure – Preparation

Requirements for receiving screen data from the unit in use *1	PC in which GP-Pro EX Transfer Tool is installed. *2
	Transfer Cable (the followings can be used) USB transfer cable: CA3-USBCB-01 (Type A - Type A) *It's also possible to send/receive a screen via CF Card, USB storage device or Ethernet.
Requirements for converting screen data of the unit in use and transferring the converted data to Recommended substitute unit	PC with GP-Pro EX installed STC-6300TA (with EIP driver/TM3 driver) supported version: Ver. 4.09.550 or later
	Transfer Cable (the followings can be used) USB transfer cable: PFXZUSCBMB2 (Type A – Type micro-B) or commercially available USB micro-B transfer cable *It's also possible to send/receive a screen via USB storage device or Ethernet.

*1: This step is required if screen data is saved only in the HMI unit, not in any other device.
If you already have the screen data backup, please go to "3-1. Replacement Procedure – Change model to recommended substitute unit (GP-Pro EX)".

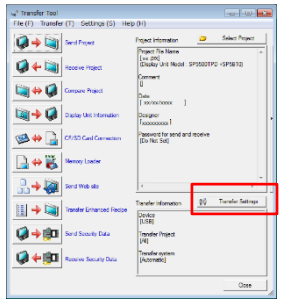
*2: Please use the same or later version of the software used when creating screens on the old model. If you don't know the software version, we recommend that you use the latest one. You can download the latest transfer tool from our website.
https://www.pro-face.com/otasuke/

3-1. Replacement Procedure – Receive Screen data from the model in use (GP-Pro EX)

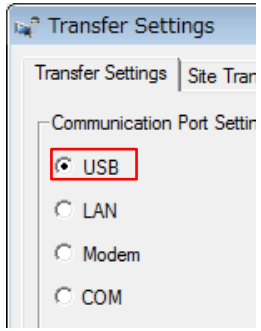
In this section, we will introduce how to receive screen data with a USB transfer cable as an example. If you have the backup of screen data, this step is not necessary. Please go to the next section.

1. Connect your PC and the model in use with a USB transfer cable. If the driver of the cable has not been installed on your PC yet, a dialog box will appear. Please follow the instructions.

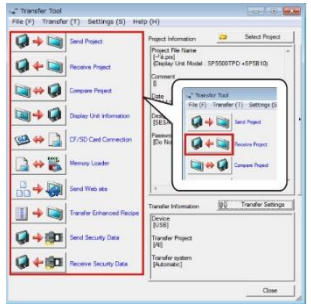
2. Start the Transfer Tool of GP-Pro EX.



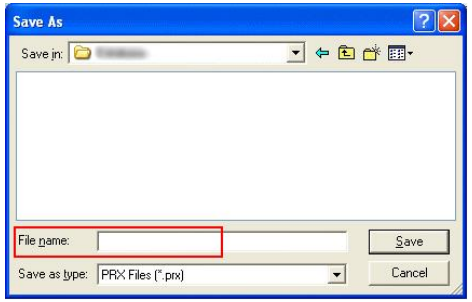
3. Make sure that the [Device] in the “Transfer Settings Information” is set to [USB]. If not, click the [Transfer Setting] button to open the “Transfer Setting” dialog box. Select [USB] in the Communication Port Settings field and click [OK].



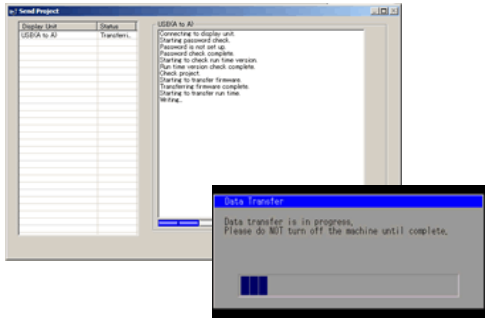
4. Start GP-Pro EX Transfer Tool and click the [Receive Project] button.



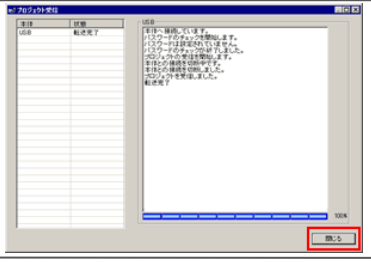
5. Click [Receive Project], and the following dialog box will appear. Specify a place to save the received data in and a project file name, and then click [Save] to start transfer.



6. The following dialog box appears during transfer, and you can check the communication status. (The display unit enters the Transferring mode and communication with the device such as a PLC is terminated.)



7. When transfer is completed, the status displayed in the dialog box will change from [Transferring] to [Complete Transfer]. Click [Close] to close the dialog box.

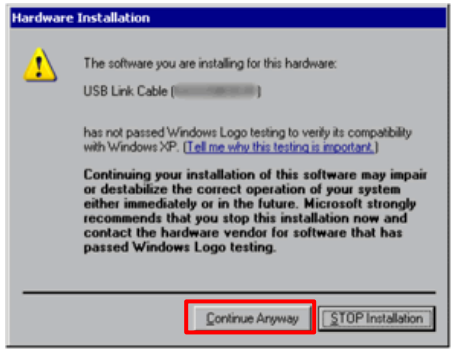


8. Close the Transfer Tool.

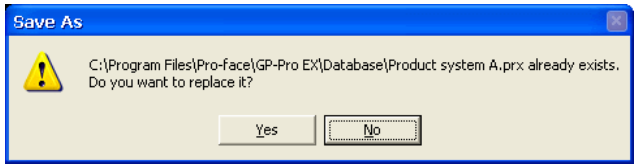
3-1. Replacement Procedure – Receive Screen data from the model in use (GP-Pro EX)

NOTES

- The “Hardware Installation” dialog box as shown on the right may appear during installing the USB driver depending on the security level of Windows®. Click [Continue Anyway] to start installing the driver. When installation is completed, click [Finish].



- When the file already exists, a window will appear asking if you want to overwrite the file.



- When receiving a project file that uses SD card/USB memory data such as Recipe Function (CSV data), the following dialog box will appear during the transfer. Please specify where to save the data. Click [OK] to return to the [Receive Project] dialog box and complete the transfer.

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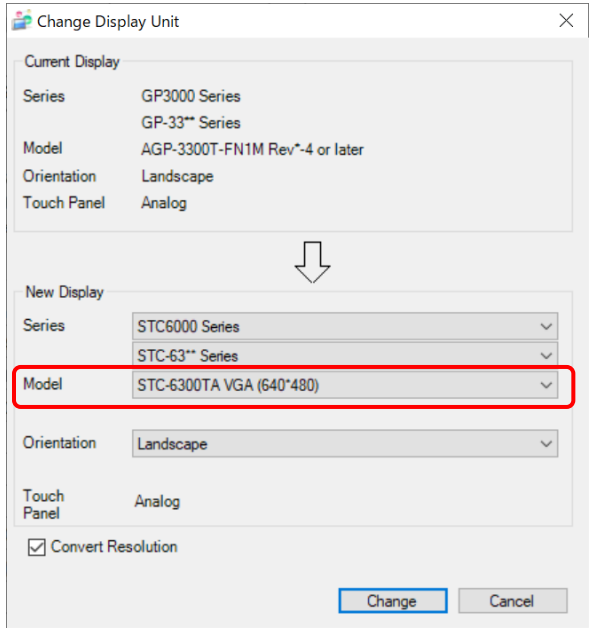
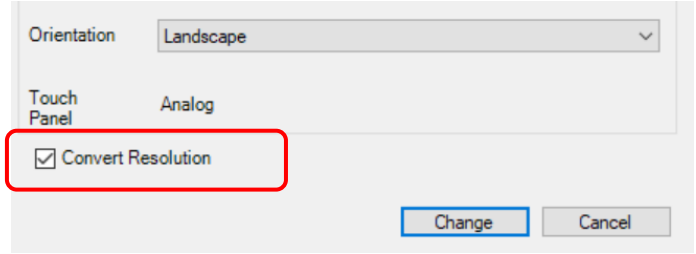
3-1. Replacement Procedure – Change model to recommended substitute unit (GP-Pro EX)



Change the Display unit from GP-3300T/L to STC-6300TA.

The display can be changed from the menu bar “Project” → “System Settings” → “Display” → “Change Display” in GP-Pro EX.

If you check on [Convert Resolution] when changing the Display Unit type (as shown below), you can adjust both size and location of the part and the text relative to the display resolution automatically. But still, you may need to adjust them manually. Please pay attention to the following points.



- A function that requires absolute coordinates. Please adjust the settings manually.
  - **Global window**
  - **Position Animation**
- Due to font size and resolution restrictions, manual changes may be required. Please resize them if needed
  - **Font:** In the case of using Standard font, the size will be smaller. You can improve by using Stroke font or Image font.
  - **Objects**
  - **Parts**
  - **Images**
  - **Alarm parts**
- Position may differ from the original project. Please check the coordinate of the window and adjust if needed.
  - **Window display**

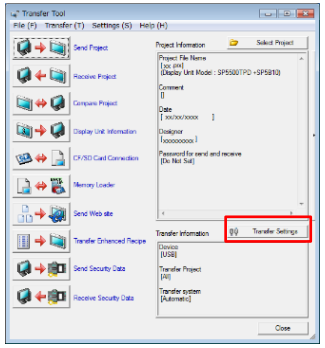
3-1. Replacement Procedure – Transfer screen data to recommended substitute unit (GP-Pro EX)

In this section, we will introduce how to transfer screen data with a USB transfer cable as an example.

1. Connect your PC and the recommended substitute unit with a USB transfer cable. If the driver of the cable has not been installed on you PC, a dialog box will appear. Please follow the instructions.

2. Turn on the power of Recommended substitute unit. The “Welcome” screen will appear on the display unit. After transferring a project file once, this screen will not appear again.

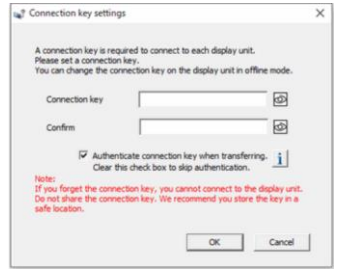
3. On the GP-Pro EX’s State Toolbar, click the [Transfer Project] icon to open the Transfer Tool.
To transfer a different project file, click the [Select Project] button and select a project file.



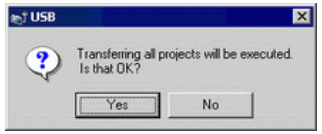
4. Make sure that the [Device] in the “Transfer Settings Information” is set to [USB]. If not, click the [Transfer Setting] button to open the “Transfer Setting” dialog box. Select [USB] in the Communication Port Settings field and click [OK].

5. Click [Send Project].
In the dialog box that appears, set the connection key and clock [OK].

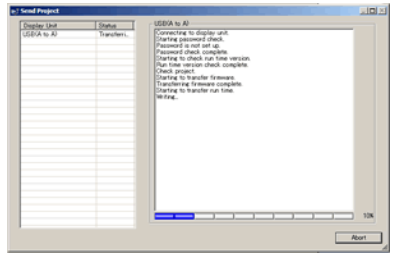
NOTE: If you forget the connection key, you will not be able to connect to the display unit. For more information about connection key, refer to GP-Pro EX reference manual (34.14.4 How the Connection Key Works).



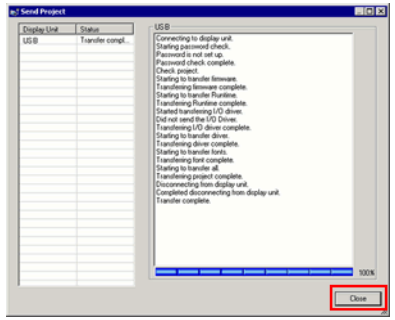
6. When this dialog box appears, click [Yes]. This dialog box is not displayed when the same project file is sent again.



7. The transfer begins. The following dialog box appears during transfer, and you can check the communication status. (The display unit changes to Transferring mode and communication with the device/PLC is suspended.)



8. When transfer is completed, the state of the dialog box changes from [Transferring] to [Transfer Complete]. Click [Close] to close the dialog box.



9. Close the Transfer Tool

10. Click the [X] mark on top right of the screen or [Project] → [Exit] to close GP-Pro EX.

3-2. Software Compatibility – GP-Pro EX Supported Feature Comparison

Specification UP in STC-6300TA

NOT supported in STC-6300TA

GP-Pro EX Feature		GP-3300T/L (FLEX NETWORK)	STC-6300TA
Display	Screen Area (Application memory, unit: byte)	6M	64M
	Portrait Installation	✓	✓
	Function Expansion Memory	-	-
	Installing the USB/RS-422/485 Conversion Adapters	-	✓
	MAC Address Display	✓	✓
External Storage	CF Card	✓	-
	SD Card	-	-
	CFast Card	-	-
	USB storage	✓	✓
	FTP server	✓	✓
System Settings	Drawing in 256 colors	✓ (GP-3300T/S only)	✓
	Reverse Display	✓ (GP-3300L only)	-
	Color Blink	✓ (GP-3300T/S only)	-
	Synchronize Text Display with Text Table	✓ *1	✓
	Time Zone settings	-	-
	Detect Backlight Burnout	✓	-
	Dimmer settings	-	✓
	2-point touch / Multitouch	-	-
	Display the SD/USB Removal Icon	-	✓

*1 Only runs on display units Rev.4 or later.

3-2. Software Compatibility – GP-Pro EX Supported Feature Comparison

Specification UP in STC-6300TA

NOT supported in STC-6300TA

GP-Pro EX Feature		GP-3300T/L (FLEX NETWORK)	STC-6300TA
System Settings	Screen Capture	✓	✓
	SRAM Auto Backup	✓	✓ USB storage can be used for the models without SD/CF card slots.
	Image Font	✓ *1	✓
	Bitmap Font	✓ *1	✓
	Standard Font	✓ *1	✓
	Port Control	-	✓
Device/PLC Communication *2	Number of Devices/PLCs that can communicate simultaneously	2	2
	Specify Indirect Device	✓ *1	✓
	Import Device/PLC tags	-	✓
	Ethernet Multilink	✓ *1*3	✓
	Device Monitor	✓	✓
	Ladder Monitor	-	-
Transfer	Network Transfer	✓	✓
	Modem Transfer	✓	-
	SIO Transfer (COM Connection)	✓	-
	Memory loader feature	✓	✓
	CF/SD Card Connection	✓	-
	Connection Key	-	✓

*1 Only runs on display units Rev.4 or later.
*2 Depends on the type of connected PLC/Device.
*3 If this model is used as a master station, performance may deteriorate.

3-2. Software Compatibility – GP-Pro EX Supported Feature Comparison

Specification UP in STC-6300TA

NOT supported in STC-6300TA

GP-Pro EX Feature		GP-3300T/L (FLEX NETWORK)	STC-6300TA
Common Settings	Change Backlight Color	-	-
	Clock Update Settings	-	✓
	Start Screen Settings	-	✓
	Date format on CSV file output	✓ *1	✓
	Divide destination folders by file numbers	✓ *1	✓
	Increase Alarm Type [Extended] settings and Text Table index numbers	-	-
	Alarm Message Multiple Line Display	✓ *1	✓
	Attach Data Value to Operation Log	✓ *1	✓
	Changing passwords at run time (CSV file)	✓ *1	✓
	Changing passwords at run time (password change screen)	-	✓
	Append Date/Time to CSV File Name	-	✓
	Transfer sampling CSV file to FTP	-	✓
	Transferring sampled data to the cloud	-	✓
	Indirectly specify Sampling Frequency and Alarm Settings	✓ *1	✓
	Sampling data/Enhanced recipe data format co-exist	-	✓
	Create a recipe (CSV data) index file at runtime	✓ *1	✓
	Enhanced Recipes	-	✓
	Extended Script copy file function	✓ *1	✓
	Global Trigger	-	✓

*1 Only runs on display units Rev.4 or later.

3-2. Software Compatibility – GP-Pro EX Supported Feature Comparison

Specification UP in STC-6300TA

NOT supported in STC-6300TA

GP-Pro EX Feature		GP-3300T/L (FLEX NETWORK)	STC-6300TA
Common Settings	Movie record/play feature	-	-
	Use Image unit	-	-
	Sound Output Feature	-	-
	AUX	-	-
	Retentive Variables Function	✓	✓
Parts	Selector List	✓ *1	✓
	XY Graph (Historical Trend, Data Block Display Graph)	✓ *1	✓ *2
	Picture Display [CF Image Display] / [SD Image Display] for showing JPEG files	✓	✓ USB storage can be used for the models without SD/CF card slots.
	Indirectly specify a block of Alarm parts	✓ *1	✓
	Special Data Display [File Manager] sort function and default path	✓ *1	✓
	Special Data Display [File Manager] copy file to FTP	✓ *1	✓
	Message Display's Bulletin Message	✓ *1	✓
	Image Sensor Display	✓ *1	-
	Animation	✓ *1	✓
	Alarm History Message Flow Display	-	✓
	Alarm History / Sampling Data / Enhanced Recipe Data Refine Search / Sort Function	-	-
	Alarm Analysis Function	-	-

*1 Only runs on display units Rev.4 or later.
*2 Supported by GP-Pro EX Ver.5.00.000 or later.

3-2. Software Compatibility – GP-Pro EX Supported Feature Comparison

Specification UP in STC-6300TA

NOT supported in STC-6300TA

GP-Pro EX Feature		GP-3300T/L (FLEX NETWORK)	STC-6300TA
Logic	Logic Program Operation	✓	✓
	I/O Driver	✓	✓
	Function Block	✓	✓
Network	RPA Function (end of support from Ver.4.09.400)	-	-
	GP-Viewer EX	✓	✓
	Web Server (end of support from Ver.4.09.450)	-	-
	Camera-Viewer EX	-	-
	Pro-face Remote HMI	-	✓
	E-mail	-	✓
	GP Remote Printer Server	✓	✓
	Pro-face Connect (models you can register as SiteManager)	-	✓
	Pro-Server EX	✓	✓ *1
Input Equipment / Peripheral Equipment (USB Device)	USB Keyboard	✓	✓
	EZ Illuminated Switch	-	✓
	EZ Tower Light	-	✓
	EZ LAN Adapter	-	✓

*1 To use Pro-Server EX with STC-6300TA, GP-Pro EX Ver.4.09.550 or later is required.

3-2. Software Compatibility – Supported Software Version

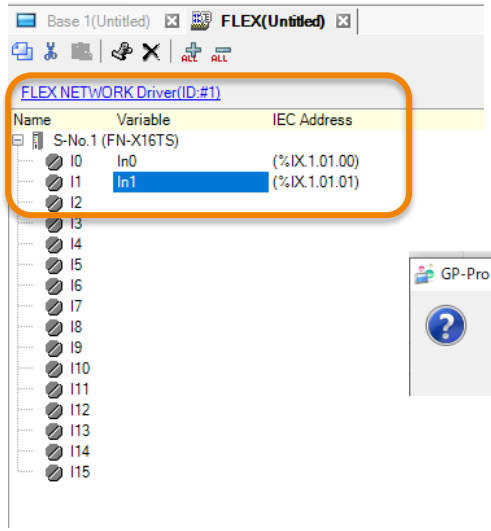
Supported Software	GP-3300T/L (FLEX NETWORK)	STC-6300TA	Compatibility of Project Data
GP-Pro EX	✔	✔ Ver. 4.09.550 or later	✔
	https://www.pro-face.com/otasuke/files/manual/gpproex/new/refer/gpproex.htm		
Pro-Server EX	✔	✔ Ver. 1.37.300 or later *1	✔
	https://www.pro-face.com/otasuke/files/manual/soft/server_ex/v1_37/ref/SRPreface.htm		
Pro-face Remote HMI (iOS/Android)	-	✔ Ver. 1.60 or later	NEW
	-	https://www.pro-face.com/otasuke/qa/remotehmi/faq.html	
Pro-face Remote HMI Client for Win	-	✔ Ver. 1.42 or later	NEW
	-	https://www.proface.com/en/product/soft/remotehmi_client/download	
Pro-face Connect	-	✔ Ver. 9.6 or later	NEW
	-	https://www.proface.com/en/product/soft/proface_connect/download	

*1 To use Pro-Server EX with STC-6300TA, GP-Pro EX Ver.4.09.550 or later is required.

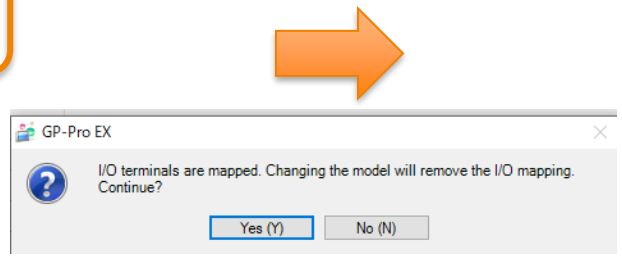
3-3. Other Important Notes on Software

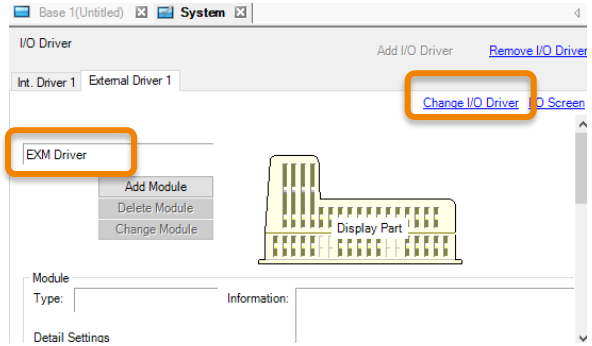
- About I/O Driver settings
  - Since the I/O drivers used are different, the I/O driver settings set in the GP-3300T/L (FLEX NETWORK) project will not be carried over to the STC-6300TA after conversion. You need to configure the I/O driver settings on the software again. For information on how to set up the I/O driver, please refer to Modicon TM3 guidebook for setting up a connection to HMI.

FLEX NETWORK Driver is used in GP-3300T/L (FLEX) Project

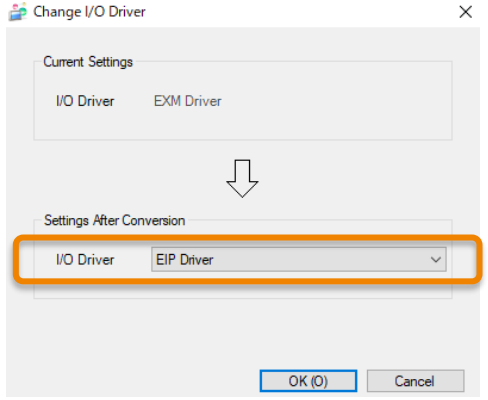


After converting to STC-6300TA





The default setting is EXM driver.



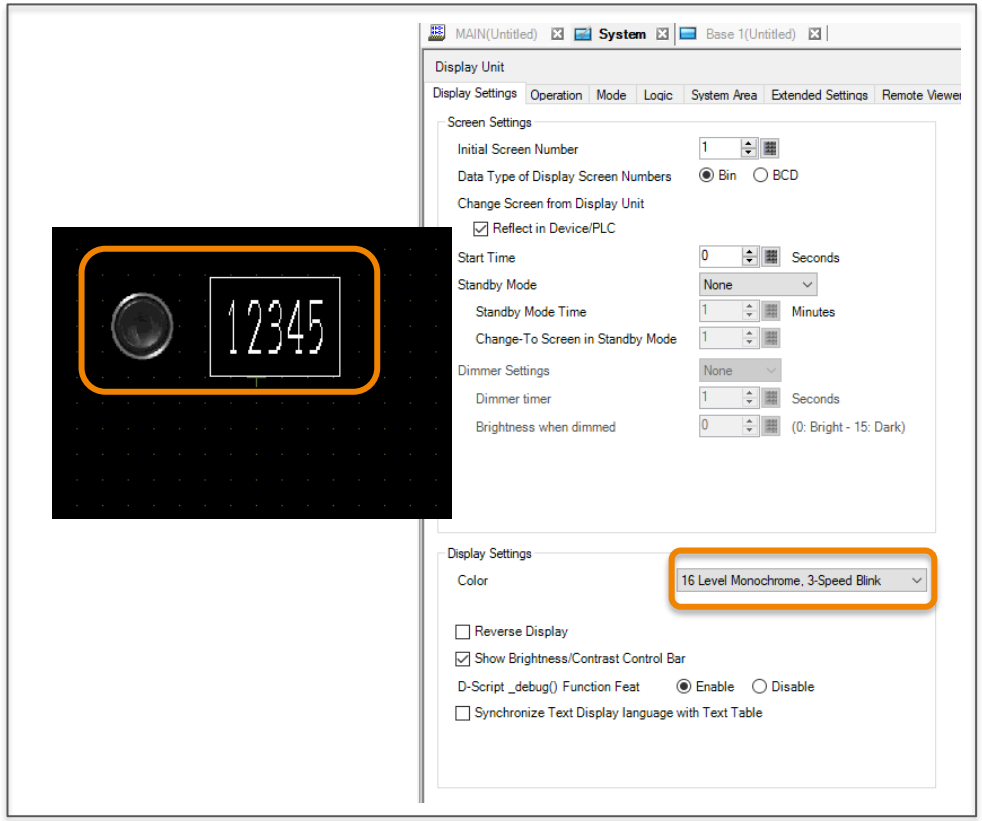
In [Change I/O Driver] window, change the [I/O Driver] to [TM3 Driver] or [EIP Driver].

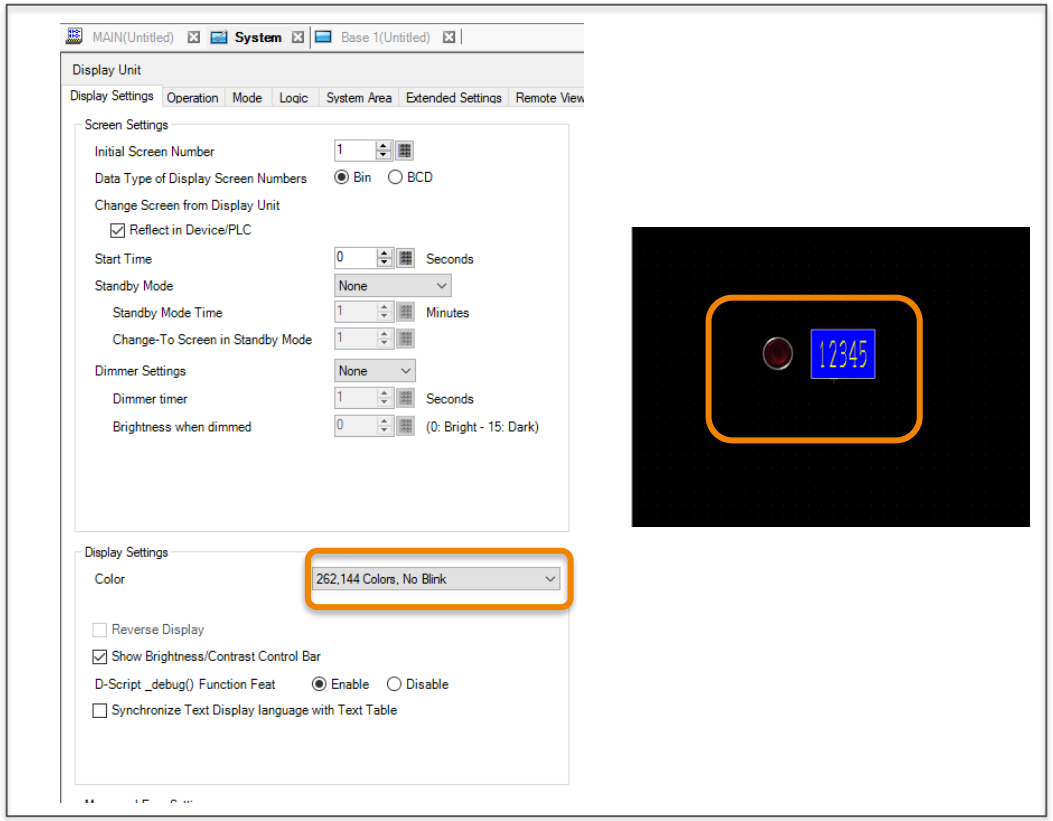
TM3 Driver – When connecting TM3 modules to STC-6300TA by Rear/Extension Mounting

EIP Driver – When connecting TM3 modules using EtherNet/IP compatible adapter unit

3-3. Other Important Notes on Software

- About Display colors (GP-3300L only)
  - The display color of GP-3300L is monochrome. As STC6000 Series do not support monochrome display, if you change the model to STC6000 Series, the display color will be changed to Color display. Therefore, after changing the model, be sure to check the color of the screen data with GP-Pro EX.

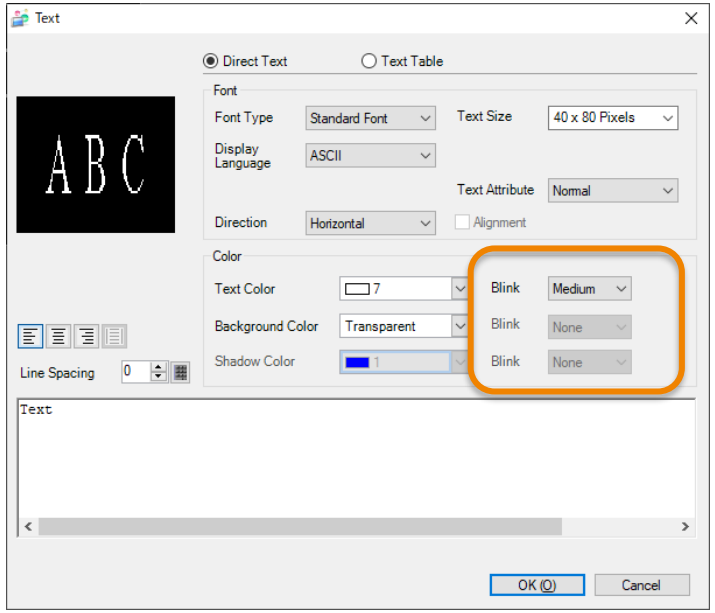




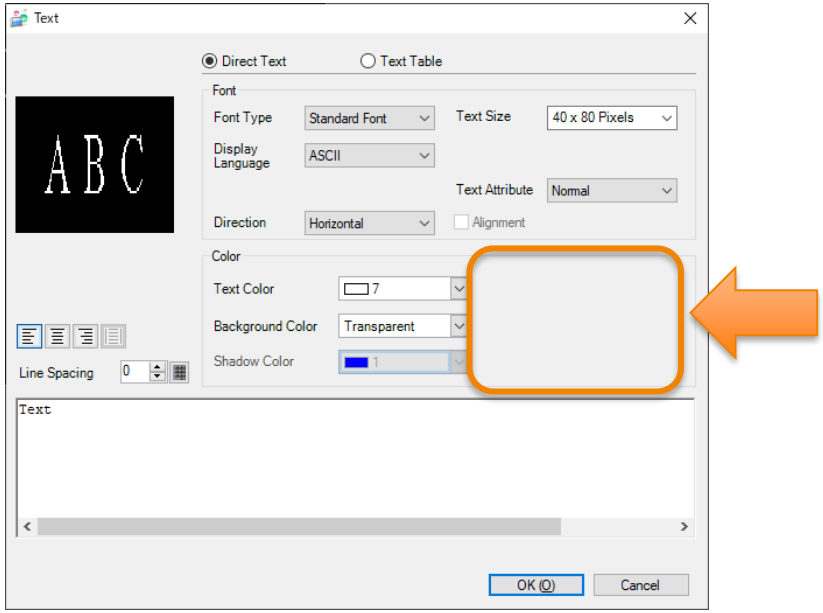
3-3. Other Important Notes on Software

- About Blink function
  - STC6000 Series do not support Blink function. Therefore, if you use the blink settings in GP3000 Series, the settings will be cancelled after changing the display to STC6000 Series in GP-Pro EX.

GP3000 Series



After converting the project to STC6000 Series



NOTE: We have a workaround to add blink functions to some of the parts/texts on STC6000 display by using the functions of the configuration software, GP-Pro EX. Refer to the following FAQ for the setting procedures.
https:/www.proface.com/en/support/faq/FAQ000268649

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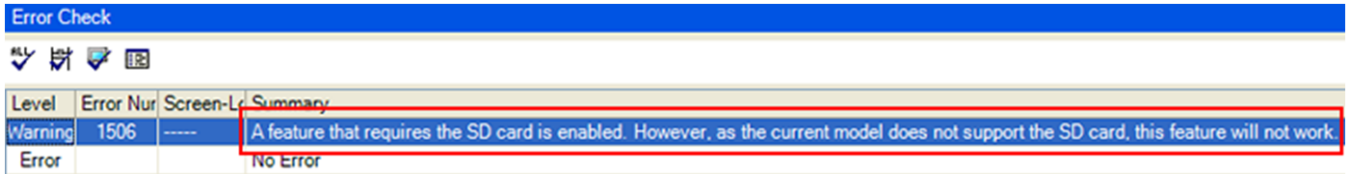
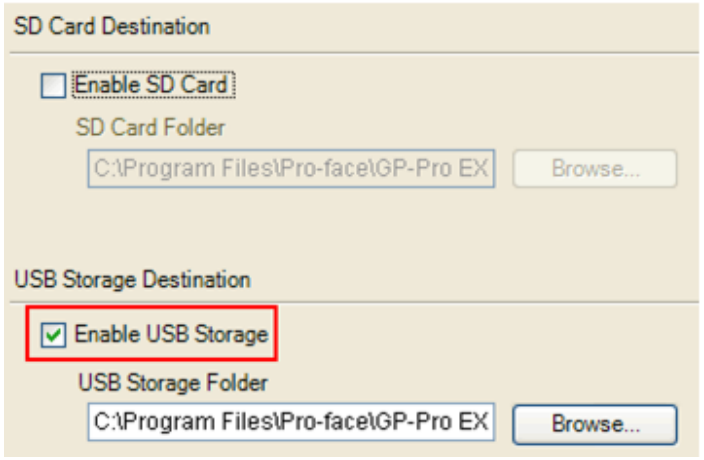
3-3. Other Important Notes on Software

- Changing the setting of the external media to use
  - If a CF card is used for GP-3300 series, after the display unit type of the project file is changed to STC6000 series, “a CF card” is automatically replaced with “a SD card” for the external media setting. However, STC-6300TA does not support SD card.
    After conversion of the project file data, at GP-Pro EX Error Check, if the message, “The project contains features that require a SD card. However, the selected display does not support SD cards so these features will not run.” appears, change the SD card setting to the USB storage setting following the procedure below.

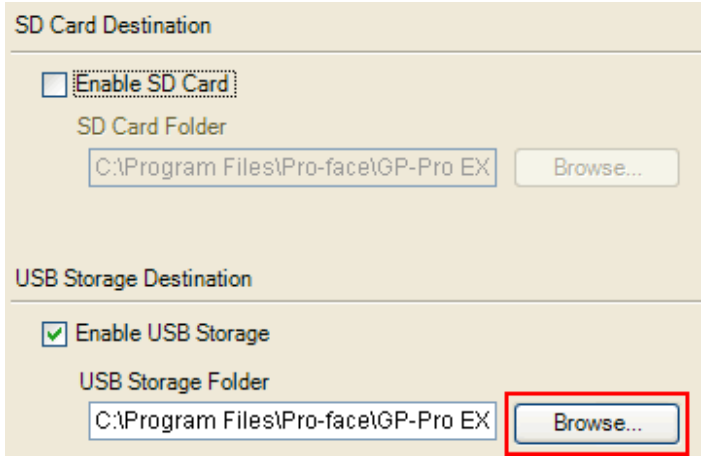


< Procedure >

1) Click [Project] → [Information] → [Destination Folder]
2) Uncheck “Enable SD Card” and check “Enable USB Storage”.



3) Click the [Browse] button and specify a destination folder.



4) Click [OK] to confirm the setting.
5) Click [Project]->[Save] to save changes.
6) Check each function that uses the CF Card and replace the setting with [USB Storage].

Appendix

Analog Unit comparison – FLEX NETWORK vs TM3 – 1/2

FLEX NETWORK Analog Unit					TM3 Analog Module				
Reference	Channels		Specifications		Reference	Channels		Specifications	
FN-AD02AH	2ch	IN	Mode	0-10V 0-20mA 4-20mA	TM3AI2H	2ch	IN	Mode	0-10V -10-10V 0-20mA 4-20mA
			Resolution	12bits				Resolution	16bits or 15bits + sign
			Conversion time	≦ 2msec				Conversion time	1msec/ch
			Calibration	None				Calibration	None
			Filter	2/4/8/16/32/64ms (Moving average)				Filter	1 - 1000 (10ms unit)
FN-AD04AH	4ch	IN	Mode	0-5V 1-5V 0-10V -5-5V -10-10V 0-20mA 4-20mA	TM3AI4	4ch	IN	Mode	0-10V -10-10V 0-20mA 4-20mA
			Resolution	12bits or 11bits + sign				Resolution	12bits or 11bits + sign
			Conversion time	≦ 2msec				Conversion time	1msec/ch
			Calibration	Possible to set by CH				Calibration	None
			Filter	2/4/8/16/32/64/128/256/512/1024/2048/4096/8192/16384/65536ms (Simple average/Moving average, Eliminate Max/Min)				Filter	1 - 1000 (10ms unit)

NOTE: For the detailed specifications, please refer to the Hardware manual of each module.

Analog Unit comparison – FLEX NETWORK vs TM3 – 2/2

FLEX NETWORK Analog Unit					TM3 Analog Module				
Reference	Channels		Specifications		Reference	Channels		Specifications	
FN-DA02AH	2ch	OUT	Mode	0-10V 0-20mA 4-20mA	TM3AQ2	2ch	OUT	Mode	0-10V -10-10V 0-20mA 4-20mA
			Resolution	12bits or 11bits + sign				Resolution	12bits or 11bits + sign
			Calibration	None				Calibration	None
			Conversion time	≦ 2msec				Conversion time	1msec
FN-DA04AH	4ch	OUT	Mode	0-5V 1-5V 0-10V -5-5V -10-10V 0-20mA 4-20mA (12bit)	TM3AQ4	4ch	OUT	Mode	0-10V -10-10V 0-20mA 4-20mA (12bit)
			Calibration	Possible to set by CH				Calibration	None
			Conversion time	≦ 2msec				Conversion time	1msec

NOTE: For the detailed specifications, please refer to the Hardware manual of each module.