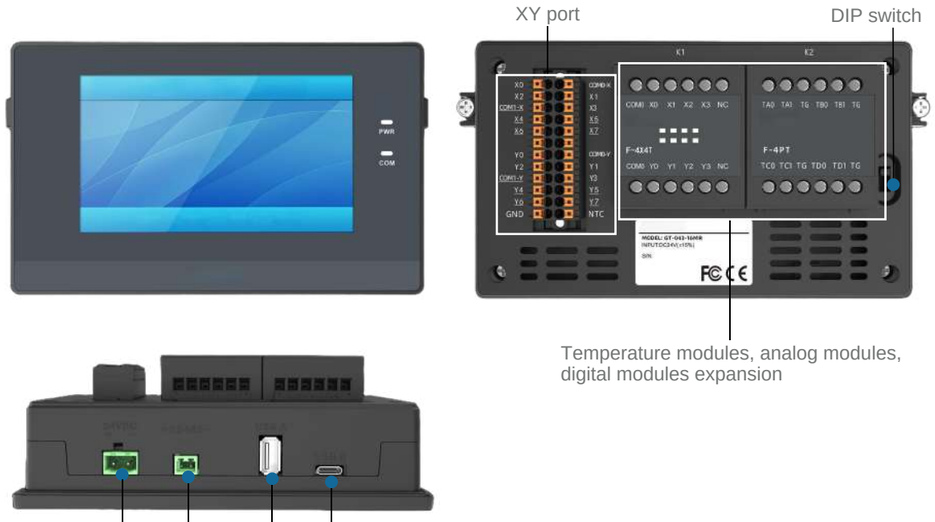
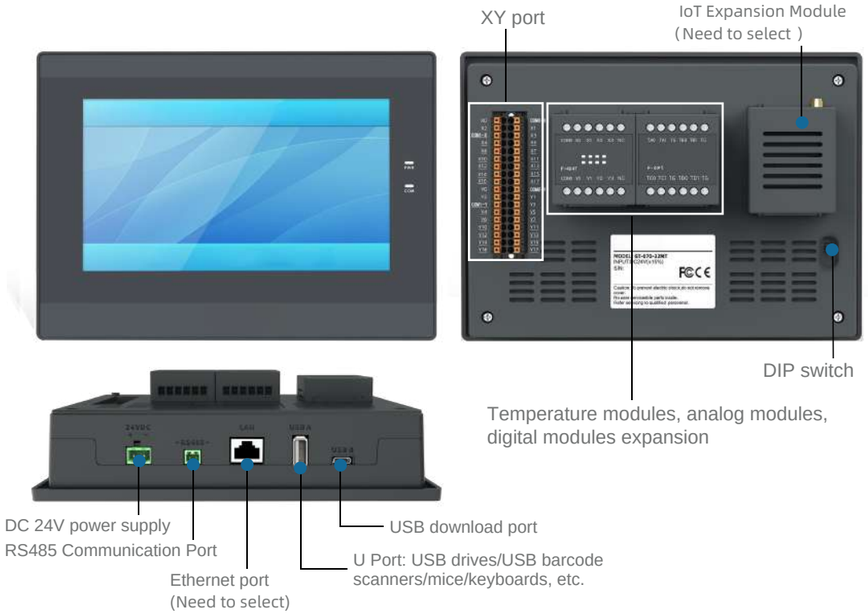
① GT-043



② GT-070



Features

- Integrated programming for display and control
- Multiple 200KHZ pulse outputs, multiple high-speed inputs (multi-channel AB phase)
- Multiple analog inputs and outputs
- Certain models support transistor, relay outputs and mixed outputs
- Plenty of interfaces (both HMI and PLC have 485 ports, plus USB download and network ports)
- I/O modules can expand up to 16 I/O points, modules can support up to 8 temperature inputs with thermocouples/RTDs

Naming Rules

GT - 070 - 26 MR - 1TC1AI - G
① ② ③ ④ ⑤ ⑥

① GT:GT Series All-in-One Machine (HMI + PLC)

② 043: Display size 4.3"
070: Display size 7"

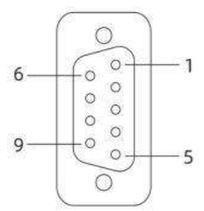
③ 16: Total I/Os are 16 points
23: Total I/Os are 23 points
26: Total I/Os are 26 points
30: Total I/Os are 30 points
32: Total I/Os are 32 points

④ MR: Relay output
MT: Transistor output
M/MTR: Includes transistor and relay

⑤ TC: Thermocouple input
PT: RTD input
AI: Analog input
AIO: Analog input/output

⑥ G: Comes with a network module

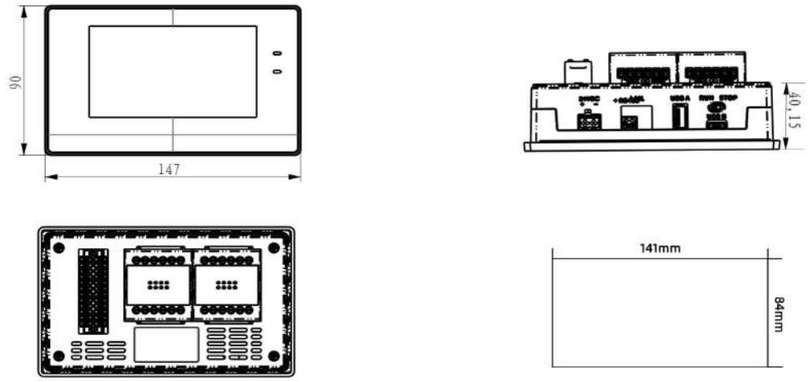
Port Description

DB9F: Serial port terminal				
Pinout diagram for a 9-pin male communication port connector	pin	COM1:RS232	COM2:RS422	COM2:RS485
	1			
	2	RX		
	3	TX		
	4			
	5	GND		
	6		RX-	
	7		RX+	
	8		TX-	B-
	9		TX+	A+

Wiring interface (COM3:485)		
	A+	B-

USB		
	USB Download Port	Connect the computer to the HMI to upload or download project files.

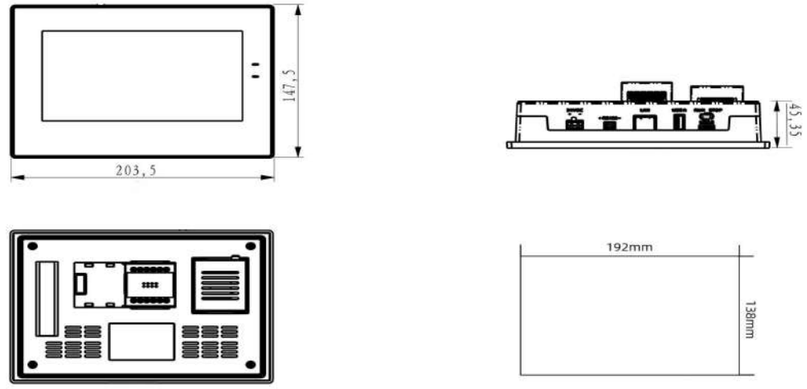
① GT-043



■ Product Specifications

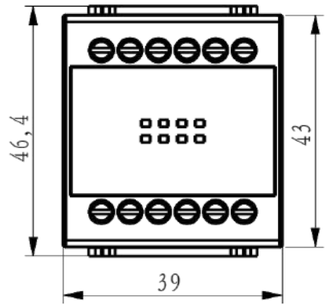
Model	GT-070-32MT -8PT	GT-070-32MT -8PT-G	GT-070-32MT -8TC	GT-070-32MT -8TC-G	GT-070-32MT -G
Dimension (mm)	204×148×45				
Cutout Dimension (mm)	192×138				
Display Size (mm)	7" (16:9)				
Weight (g)	738				700
Operating Ambient Temperature	-20℃~55℃ (Non-freezing)				
Operating Ambient Humidity	5~95%RH (Non-condensing)				
Vibration Resistance	10 ~ 25Hz, 2G for X/Y/Z axis, 30 minutes				
Housing Material	Engineering Plastic ABS+PC				
Power Supply	DC24V±15%				
ESD Level	±6kV				
Resolution (Pixels)	1024×600				
Contrast Ratio	400:1				
Brightness	450cd/m²				
Touch Panel	4-wire High-precision Touch Screen				
Display Colors	16.77M Colors				
Backlight Module	LED				
Memory	128MB DDR				
CPU	Cortex A7 1GHz, Dual-core				
Storage	128MB Flash				
FCC Compliance	Compliant with FCC, Class A				
Withstand Voltage Test	1000V AC, 1 minute				
CE Certification	Compliant with EN55032 and EN55035 standards				
Protection Grade	IP65 (Front Panel)				
Digital Input	16 points				
High-speed Counter	2 channels single-phase (X0, X2) @200KHz; 2 channels single-phase (X1, X3) @20KHz				
AB Phase Counter	2 channels AB phase (X0X1, X2X3) @200KHz				
Digital Output	16 points transistor output, including 4 channels 200KHz high-speed pulse output				
RTD Input	8 channels PT100/NI120		8 channels K/T type thermocouple		NONE
I/O Expansion	Max. 16 expandable points				
Temperature Module Expansion	Expandable to 8 channels via plug-in module, supports thermocouple/RTD				
Analog Module Expansion	Expandable to 8 channels via plug-in module				
Network Module	None	Supports 4G/WiFi	None	Supports 4G/WiFi	
USB Download Port	Available				
USB Flash Disk Port	Available				
PLC Communication Port	None				
HMI Communication Port	1 × RS485				
Ethernet	Available				

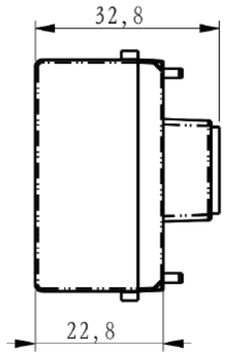
② GT-070

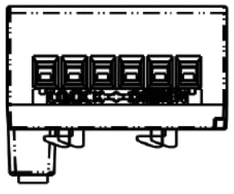


Model	GT-043-16MR	GT-043-16MT	GT-070-30MR	GT-070-30MR-G	GT-070-32MT
Dimension (mm)	147×90×40		204×148×45		
Cutout Dimension (mm)	141×84		192×138		
Display Size (mm)	4.3" (16:9)		7" (16:9)		
Weight (g)	286		756		700
Operating Ambient Temperature	-20℃~55℃ (Non-freezing)				
Operating Ambient Humidity	5~95%RH (Non-condensing)				
Vibration Resistance	10 ~ 25HZ (XYZ Axis, 2G/30min)				
Housing Material	Engineering Plastic ABS+PC				
Power Supply	DC24V±15%				
ESD Level	±6kV				
Resolution (Pixel)	480 × 272		1024 × 600		
Contrast Ratio	400:1				
Brightness	450cd/m²				
Touch Panel	4-wire High Precision Touch Panel				
Display Color	16.77M Colors				
Backlight Module	LED				
Memory	128MB DDR				
CPU	Cortex-A7 1GHz, Dual-core				
Storage	128MB Flash				
FCC Compliance	Compliant with FCC, Class A				
Withstand Voltage Test	1000V AC, 1 min				
CE Certification	Compliant with EN55032 and EN55035				
Protection Grade	IP65 (Front Panel)				
Digital Input	8		16		
High-speed Counter	2-channel Single-phase (X0, X2) 200KHZ; 2-channel Single-phase (X1, X3) 20KHZ				
AB Phase Counter	2-channel AB phase (X0X1, X2X3) 200kHz				
Digital Output	8-channel Relay	16 points transistor output including 4 200KHz high-speed pulse output points	14-channel Relay		16 points transistor output including 4 200KHz high-speed pulse output points
I/O Expansion	Max. expandable to 16 points				
Temperature Module Expansion	Expandable to 8 channels via plug-in module, support Thermocouple / RTD				
Analog Module Expansion	Expandable to 8 channels via plug-in module				
Network Module	None			Supports 4G/WiFi	None
USB Download Port	Available				
USB Disk Port	Available				
PLC Communication Port	None	1×RS485	None		
HMI Communication Port	1×RS485				
Ethernet	None		Available		

Plugin extension size







Extension Plugin Product Specification

Model	F-4TC	F-4PT	F-4PT-1
Overall Dimension (mm)	39×46×33		
Weight (g)	38		
Operating Ambient Temperature	-20°C ~ 55°C (No Freezing)		
Operating Ambient Humidity	5~95%RH (No Condensation)		
Vibration Resistance	10 ~ 25HZ (XYZ Axis), 2G/30min		
Power Supply	Powered by Main Unit		
Analog Input	4		
Input Mode	K-type, T-type Thermocouple	PT100 RTD	PT1000 RTD
Measurement Range	K-type (-50°C~800°C)T-type (-260°C~400°C)	-200°C~850°C	-50°C~300°C
Max. Resolution	0.1°C		
A/D Conversion Resolution	16-bit		
Overall Measurement Accuracy	±1°C	±0.5°C	±0.5°C
FCC Compliance	Compliant with FCC, Class A		
Withstand Voltage Test	1000V AC, 1 min		
CE Certification	Compliant with EN55032 and EN55035 standards		
Protection Class	IP30		

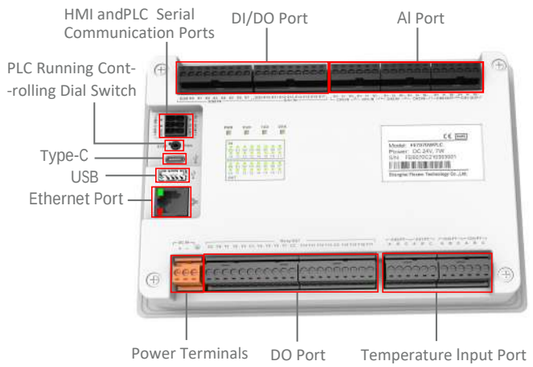
Model	F-4X4T	F-8X	F-8T	F-4R
Overall Dimension (mm)	39×46×33			
Weight (g)	38			
Operating Ambient Temperature	-20°C ~ 55°C (No Freezing)			
Operating Ambient Humidity	5~95%RH (No Condensation)			
Vibration Resistance	10 ~ 25HZ (XYZ Axis), 2G/30min			
Power Supply	Powered by Main Unit			
Digital Input	4	8	—	—
Input Signal Voltage	DC24V±20%	DC24V±20%	—	—
Max. Inductive Load	6W	—	6W	80VA
Max. Resistive Load	Single point:0.3A, Common:1A	—	Single point:0.3A, Common:1A	Single point:1A, Common:2A
Digital Output	4	—	8	4
Output Type	Transistor / NPN	—	Transistor / NPN	Relay
FCC Compliance	Compliant with FCC, Class A			
Withstand Voltage Test	1000V AC, 1 min			
CE Certification	Compliant with EN55032 and EN55035 standards			
Protection Class	IP30			

Model	F-4AI	F-2AI1AO	F-2AO
Overall Dimension (mm)	39×46×33		
Weight (g)	38		
Operating Ambient Temperature	-20°C ~ 55°C (No Freezing)		
Operating Ambient Humidity	5~95%RH (No Condensation)		
Vibration Resistance	10 ~ 25HZ (XYZ Axis), 2G/30min		
Power Supply	Powered by Main Unit		
Analog Input	4	2	—
Input Mode	Voltage / Current Measurement		—
Measurement Range	0-5V, 0-10V, 4-20mA		—
Max. Input Range	12V, 30mA		—
Max. Resolution	0-5V: 1.25mV;0-10V: 2.5mV;4-20mA: 5μA		—
A/D Conversion Resolution	16-bit		—
Overall Measurement Accuracy	±0.1%		—
Analog Output	—	1	2
Output Mode	—	Voltage / Current Output	
Output Range	—	0-5V, 0-10V, 4-20mA	
Max. Resolution	—	0-5V: 1.25mV;0-10V: 2.5mV;4-20mA: 5μA	
Output Accuracy	—	±0.5%	
Output Load Resistance	—	≥2KΩ@10V,≥2KΩ@5V,≤500Ω@20mA	
D/A Conversion Resolution	—	12-bit	
Overall Measurement Accuracy	—	±0.5%	
FCC Compliance	Compliant with FCC, Class A		
Withstand Voltage Test	1000V AC, 1 min		
CE Certification	Compliant with EN55032 and EN55035 standards		
Protection Class	IP30		

7000 Integrated HMI+PLC

7070WE-32MR

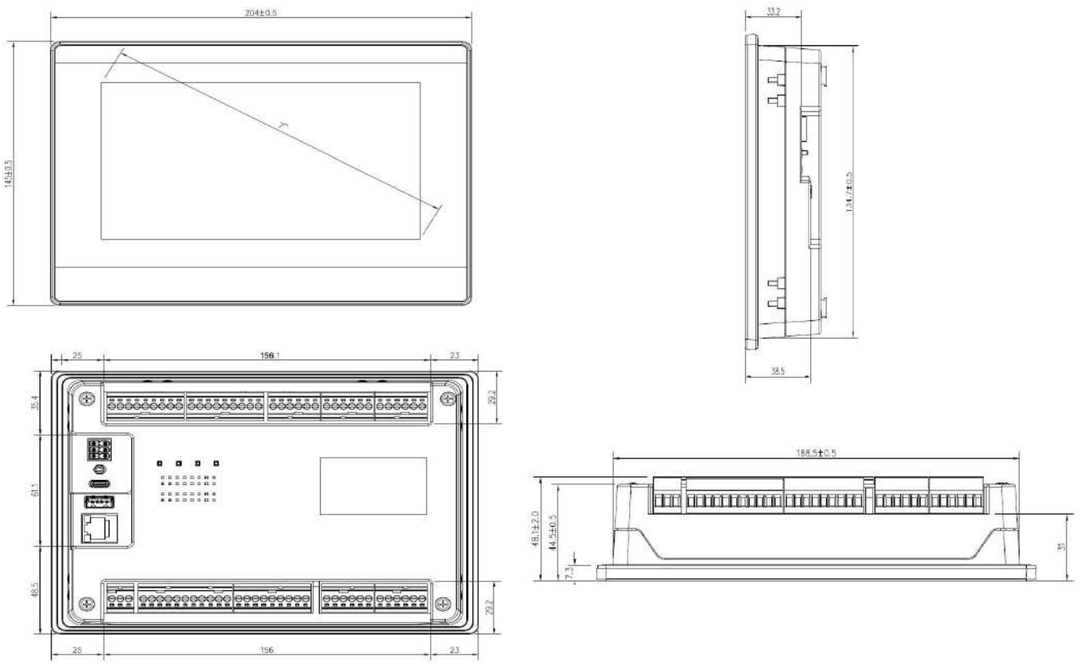




Features

- This integrated HMI+PLC solution features favorable cost performance, delivering reliable control and human-machine interaction functions at a competitive price level.
- It adopts a highly integrated hardware design, which effectively reduces the overall occupied installation space and helps miniaturize your equipment cabinet layout.
- It simplifies the whole equipment configuration workflow, cuts down wiring and commissioning work, and enables convenient daily maintenance and on-site troubleshooting.
- It simplifies equipment configuration procedures and supports easy maintenance.Conformal coating on the mainboard enables stable operation in various harsh environments.

Product Dimensions



Product Specifications

Model	7070WE-32MR
Human Machine Interface	7" 16:9 TFT LCD touch screen
Resolution	1024×600
Color	24 -bit
Brightness	350 cd/m²
Backlight	LED
LCD life	50000 hours
Touch Screen	4-wireless industrial touch screen
CPU	1GHz,dual core Cortex-A7
Memory	4GB eMMC + 128MB DDR
RTC	Real-time clock built-in
Ethernet	1 10M/100M Ethernet suitable
SD Card	None
USB Port	1 USB Type A interface/1 USB Type C interface
Serial Communication Ports	1 RS485
Program Downloading	USB U disc/Ethernet Ports/USB Type C port
LCD View Angle (T/B/L/R)	85'/85'/85'/85'
CPU	ARM 32-bit Cortex™-M3 CPU
Digital Input	16 switching inputs
Digital Output	8 transistor output+8 relay output
Analog Input	4 4~20mA/0-10V,12 -bit resolution
Analog Output	2 4~20mA/0-10V12 -bit resolution
PT100	4line3wiring PT100
User Program Capacity	150K Bytes(>10K step)
Power-offer Protection	4K Bytes
Timer	256 100ms timer x206(counting0.1~3276.7 seconds), 10m timerx46(counting0.01~327.67 seconds), 1ms timerx4(counting0.001~32.767 seconds).
Counter	235
High Interruption	X0-X4 rising edge and falling edge interrupt,3 timing interrupt
Program Excution	Circulation Scanning
Process Speed	General Command 0.1us/function Command(ON status 5us/OFF status 0.5us)
Programing	Ladder diagraph,standardC,can combine using
Serial Communication Port	Or PORT1, supporting Mitsubishi FX2N and Modbus RTU protocol
Program Ports	USB Type C 2.0:HMI&PLC download projects separately, USB Type A 2.0:Only for HMI software downloading
Rated Power	< 10W
Rated Voltage	DC24V,working range DC 18V～30V
Power Protect	With Lightning & Surge Protection
Power Loss Allowed	< 5mS
Working Temp	0~50℃
Storage Temp	-20~60℃
UV Protection	Prohibit working under strong violet environment such as direct sunshine.
Environment Humidity	10%～90%RH(non condensate)
Anti-vibration	10～25Hz(X,Y,Z direction2G/30 minutes)
Cooling	Natural Cooling
Protection Grade	Front Panel confirms to IP65(with cabinet installation),back coverconfirms to IP20
Mechanic Structure	Engineering plastics+Alloy
Hole Size	190mm×136mm
Machine Size	204mm×145mm×48mm
Weight	About1000g