

HMI+PLC All-in-one

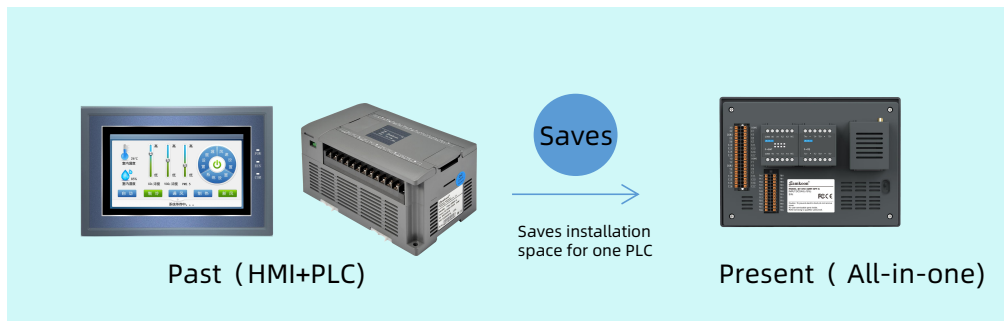




Product Features

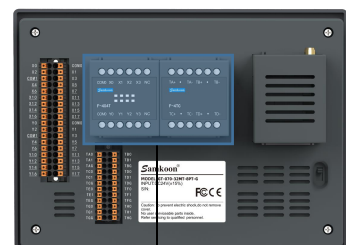
Compact and space-saving

● To achieve the same function, 1 HMI + 1 PLC was needed in the past, but now only 1 all-in-one machine is needed



The combination of HMI + PLC functions, a new operating experience

- Transistor/relay output
- Screen configuration, ladder diagram programming integrated
- Maximum 4 channels high-speed calculation, maximum support of 4 channels of 100KHz pulse output
- Plug-in expandable up to 8 temperature inputs, supporting thermocouple/PT100
- I/O plug-in expandable up to 16 IO points



The back supports 2 small plug-in expansion modules, which can be combined with digital IO modules, analog modules, and temperature modules arbitrarily

All-in-one (HMI+PLC)

Appearance upgrade, performance optimization, perfect integration of HMI and PLC



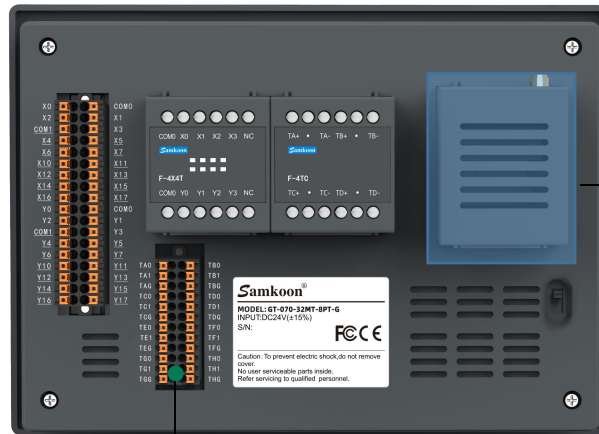
4.3 inch



7 inch

Abundant interfaces and powerful communication capabilities

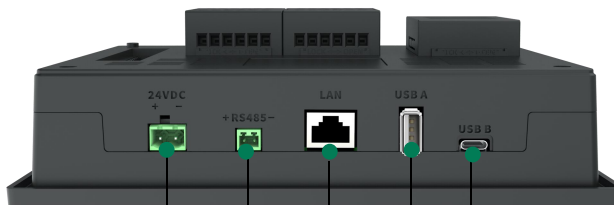
- Support multiple communication modes (RS485, ethernet, WIFI, 4G)
- Support usb download, U disk update configuration



8 channels PT100



Samkoon IoT expansion module, with WIFI mode and 4G mode selection, supports display control cloud platform, plug and play.



DC 24V

RS485

Ethernet Interface

USB

U disk port

Naming Rules

GT - 070 - 26 MR - 1TC1AI - G

① ② ③ ④ ⑤ ⑥

① GT: GT Series All-in-one(HMI+PLC)

④ MR: relay output
MT: transistor output
M: including relay output and transistors output

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

⑤ TC: thermocouple input
PT: RTD input
AI: analog input
AIO: analog input/ output

③ 16: input/output put in total 16
23: input/output put in total 23
26: input/output put in total 26
30: input/output put in total 30
32: input/output put in total 32

⑥ G: with network module

All-in-one（HMI+PLC）

Product specifications

Model		GT-043-16MT	GT-070-32MT-G	GT-070-32MT
Structure and environment	Size(mm)	147x90x40	204x148x45	204x148x45
	Hole size（mm）	141x84	192x138	192x138
	Display size（mm）	4.3"(16:9)	7"(16:9)	7"(16:9)
	Weight（g）	286	700	700
	Working environment temperature	-20℃~-55℃（no freezing）	-20℃~-55℃（no freezing）	-20℃~-55℃（no freezing）
	Working environment humidity	5~95%（non-condensing）	5~95%（non-condensing）	5~95%（non-condensing）
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)	10 ~ 25HZ (XYZ direction 2G/30 minutes)	10 ~ 25HZ (XYZ direction 2G/30 minutes)
	Shell material	engineering plastic ABS+PC	engineering plastic ABS+PC	engineering plastic ABS+PC
Power supply	Power supply voltage	DC24V±15%	DC24V±15%	DC24V±15%
	Static level	±6kV	±6kV	±6kV
Display	Resolution（PX）	480 x272	1024x600	1024x600
	Contrast	400:1	400:1	400:1
	Brightness	450cd/m²	450cd/m²	450cd/m²
	Touch panel	4-wire high precision touch panel	4-wire high precision touch panel	4-wire high precision touch panel
	Display colors	16.77 million	16.77 million	16.77 million
	Backlight Module	LED	LED	LED
Hardware	Storage	128MB DDR	128 MB DDR	128 MB DDR
	CPU	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core
	RAM	128MB Flash	128MB Flash	128MB Flash
Other parameters	FCC Compatibility	Complies with FCC, Class A	Complies with FCC, Class A	Complies with FCC, Class A
	Withstand voltage test	1000V AC, 1 minute	1000V AC, 1 minute	1000V AC, 1 minute
	CE certification	Complies with EN55032 and EN55035 standards		
	Protection class	IP65（front panel）	IP65（front panel）	IP65（front panel）
	Digital input	8	16	16
	High-speed counter	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz
	AB phase counter	2AB phase count (X0X1、X2X3)200kHz	2AB phase count (X0X1、X2X3)200kHz	2AB phase count (X0X1、X2X3)200kHz
	Digital output	8 transistors, including 4 high speed 200KHZ pulse outputs	16 transistors, including 4 high speed 200KHZ pulse outputs	16 transistors, including 4 high speed 200KHZ pulse outputs
	IO extensions	Up to 16 channels	Up to 16 channels	Up to 16 channels
	Temperature module extensions	With the plug-in, can be connected to 8 ways, support thermocouple / PT100	With the plug-in, can be connected to 8 ways, support thermocouple / PT100	With the plug-in, can be connected to 8 ways, support thermocouple / PT100
	Analog module extensions	Through the plug-in, 8 channels can be connected	Through the plug-in, 8 channels can be connected	Through the plug-in, 8 channels can be connected
	Configuration Software	SKTOOL7.1	SKTOOL7.1	SKTOOL7.1
Interface	IoT extension module	NO	support 4G module/WIFI module	NO
	USB port	YES	YES	YES
	U disk port	YES	YES	YES
	PLC communication port	NO	NO	NO
	HMI communication port	1 RS485	1 RS485	1 RS485
	Ethernet interface	NO	YES	YES

Product specifications

Model		GT-070-32MT-8PT-G	GT-070-32MT-8PT
Structure and environment	Size(mm)	204x148x45	204x148x45
	Hole size (mm)	192x138	192x138
	Display size (mm)	7"(16:9)	7"(16:9)
	Weight (g)	700	700
	Working environment temperature	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)
	Working environment humidity	5~95% (non-condensing)	5~95% (non-condensing)
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)	10 ~ 25HZ (XYZ direction 2G/30 minutes))
	Shell material	engineering plastic ABS+PC	engineering plastic ABS+PC
Power supply	Power supply voltage	DC24V±15%	DC24V±15%
	Static level	±6kV	±6kV
Display	Resolution (PX)	1024x600	1024x600
	Contrast	400:1	400:1
	Brightness	450cd/m²	450cd/m²
	Touch panel	4-wire high precision touch panel	4-wire high precision touch panel
	Display colors	16.77 million	16.77 million
	Backlight Module	LED	LED
Hardware	Storage	128 MB DDR	128 MB DDR
	CPU	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core
	RAM	128MB Flash	128MB Flash
Other parameters	FCC Compatibility	Complies with FCC, Class A	Complies with FCC, Class A
	Withstand voltage test	1000V AC, 1 minute	1000V AC, 1 minute
	CE certification	Complies with EN55032 and EN55035 standards	Complies with EN55032 and EN55035 standards
	Protection class	IP65 (front panel)	IP65 (front panel)
	Digital input	16	16
	High-speed counter	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz
	AB phase counter	2AB phase count(X0X1、X2X3)200kHz	2AB phase count(X0X1、X2X3)200kHz
	Digital output	16 transistors, including 4 high speed 200KHZ pulse outputs	16 transistors, including 4 high speed 200KHZ pulse outputs
	RTD Input	8-channel PT100/NI120	8-channel PT100/NI120
	IO extensions	Up to 16 channels	Up to 16 channels
	Temperature module extensions	With the plug-in, can be connected to 8 ways, support thermocouple / PT100	With the plug-in, can be connected to 8 ways, support thermocouple / PT100
	Analog module extensions	Through the plug-in, 8 channels can be connected	Through the plug-in, 8 channels can be connected
	Configuration Software	SKTOOL7.1	SKTOOL7.1
Interface	IoT extension module	support 4G module/WIFI module	NO
	USB port	YES	YES
	U disk port	YES	YES
	PLC communication port	NO	NO
	HMI communication port	1 RS485	1 RS485
	Ethernet interface	YES	YES

Product specifications

Model		GT-070-32MT-8TC-G	GT-070-32MT-8TC
Structure and environment	Size(mm)	204x148x45	204x148x45
	Hole size (mm)	192x138	192x138
	Display size (mm)	7"(16:9)	7"(16:9)
	Weight (g)	700	700
	Working environment temperature	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)
	Working environment humidity	5~95% (non-condensing)	5~95% (non-condensing)
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)	10 ~ 25HZ (XYZ direction 2G/30 minutes))
	Shell material	engineering plastic ABS+PC	engineering plastic ABS+PC
Power supply	Power supply voltage	DC24V±15%	DC24V±15%
	Static level	±6kV	±6kV
Display	Resolution (PX)	1024x600	1024x600
	Contrast	400:1	400:1
	Brightness	450cd/m²	450cd/m²
	Touch panel	4-wire high precision touch panel	4-wire high precision touch panel
	Display colors	16.77 million	16.77 million
	Backlight Module	LED	LED
Hardware	Storage	128 MB DDR	128 MB DDR
	CPU	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core
	RAM	128MB Flash	128MB Flash
Other parameters	FCC Compatibility	Complies with FCC, Class A	Complies with FCC, Class A
	Withstand voltage test	1000V AC, 1 minute	1000V AC, 1 minute
	CE certification	Complies with EN55032 and EN55035 standards	Complies with EN55032 and EN55035 standards
	Protection class	IP65 (front panel)	IP65 (front panel)
	Digital input	16	16
	High-speed counter	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz
	AB phase counter	2AB phase count(X0X1、X2X3)200kHz	2AB phase count(X0X1、X2X3)200kHz
	Digital output	16 transistors, including 4 high speed 200KHZ pulse outputs	16 transistors, including 4 high speed 200KHZ pulse outputs
	Thermocouple input	8-channel K/T type thermocouple input	8-channel K/T type thermocouple input
	IO extensions	Up to 16 channels	Up to 16 channels
	Temperature module extensions	With the plug-in, can be connected to 8 ways, support thermocouple / PT100	With the plug-in, can be connected to 8 ways, support thermocouple / PT100
	Analog module extensions	Through the plug-in, 8 channels can be connected	Through the plug-in, 8 channels can be connected
	Configuration Software	SKTOOL7.1	SKTOOL7.1
Interface	IoT extension module	support 4G module/WIFI module	NO
	USB port	YES	YES
	U disk port	YES	YES
	PLC communication port	NO	NO
	HMI communication port	1 RS485	1 RS485
	Ethernet interface	YES	YES

Product specifications

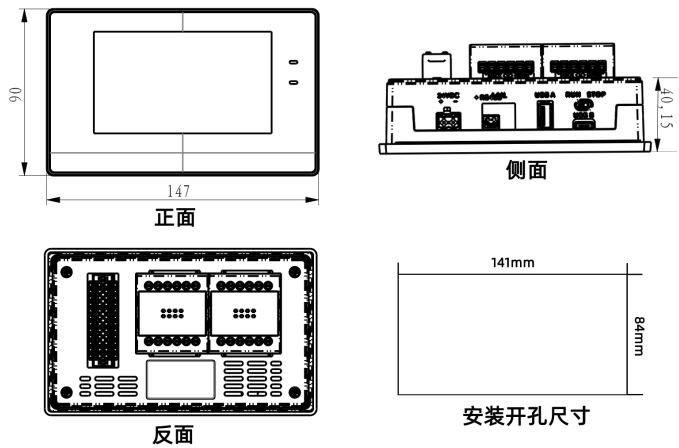
Model		GT-070-30MR-G	GT-070-30MR
Structure and environment	Size(mm)	204x148x45	204x148x45
	Hole size (mm)	192x138	192x138
	Display size (mm)	7"(16:9)	7"(16:9)
	Weight (g)	700	700
	Working environment temperature	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)
	Working environment humidity	5~95% (non-condensing)	5~95% (non-condensing)
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)	10 ~ 25HZ (XYZ direction 2G/30 minutes))
	Shell material	engineering plastic ABS+PC	engineering plastic ABS+PC
Power supply	Power supply voltage	DC24V±15%	DC24V±15%
	Static level	±6kV	±6kV
Display	Resolution (PX)	1024x600	1024x600
	Contrast	400:1	400:1
	Brightness	450cd/m²	450cd/m²
	Touch panel	4-wire high precision touch panel	4-wire high precision touch panel
	Display colors	16.77 million	16.77 million
	Backlight Module	LED	LED
Hardware	Storage	128 MB DDR	128 MB DDR
	CPU	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core
	RAM	128MB Flash	128MB Flash
Other parameters	FCC Compatibility	FCC Compatibility	FCC Compatibility
	Withstand voltage test	1000V AC, 1 minute	1000V AC, 1 minute
	CE certification	Complies with EN55032 and EN55035 standards	Complies with EN55032 and EN55035 standards
	Protection class	IP65 (front pane)	IP65 (front pane)
	Digital input	16	16
	High-speed counter	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz
	AB phase counter	2AB phase count(X0X1、X2X3)200kHz	2AB phase count(X0X1、X2X3)200kHz
	digital output	14-way relays	14-way relays
	IO extensions	Up to 16 channels	Up to 16 channels
	Temperature module extensions	With the plug-in, can be connected to 8 ways, support thermocouple / PT100	With the plug-in, can be connected to 8 ways, support thermocouple / PT100
	Analog module extensions	Through the plug-in, 8 channels can be connected	Through the plug-in, 8 channels can be connected
	Configuration Software	SKTOOL7.1	SKTOOL7.1
Interface	IoT extension module	support 4G module/WIFI module	NO
	USB port	YES	YES
	U disk port	YES	YES
	PLC communication port	NO	NO
	HMI communication port	1 RS485	1 RS485
	Ethernet interface	YES	YES

Product specifications

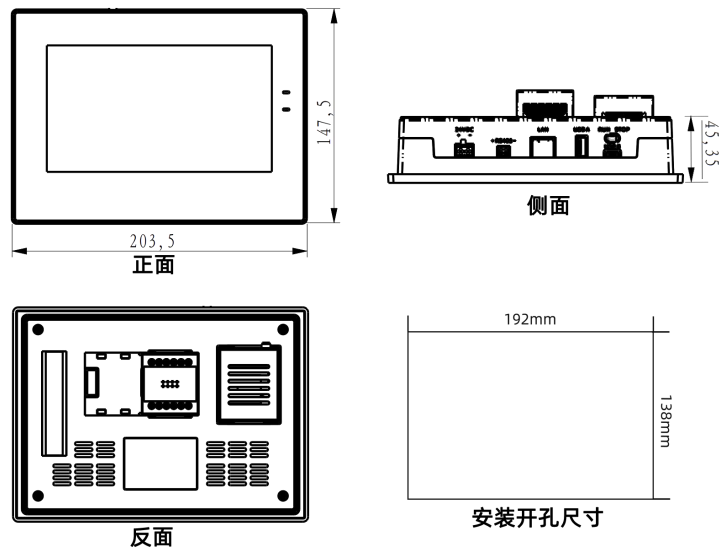
Model		GT-070-26MR-1TC1AI-G	GT-070-26MR-1TC1AI	GT-070-23M-PTAIO
Structure and environment	Size(mm)	204x148x45	204x148x45	204x148x45
	Hole size (mm)	192x138	192x138	192x138
	Display size (mm)	7"(16:9)	7"(16:9)	7"(16:9)
	Weight (g)	700	700	700
	Working environment temperature	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)
	Working environment humidity	5~95% (non-condensing)	5~95% (non-condensing)	5~95% (non-condensing)
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)	10 ~ 25HZ (XYZ direction 2G/30 minutes))	10 ~ 25HZ (XYZ direction 2G/30 minutes))
	Shell material	engineering plastic ABS+PC	engineering plastic ABS+PC	engineering plastic ABS+PC
Power supply	Power supply voltage	DC24V±15%	DC24V±15%	DC24V±15%
	Static level	±6kV	±6kV	±6kV
Display	Resolution (PX)	1024x600	1024x600	1024x600
	Contrast	400:1	400:1	400:1
	Brightness	450cd/m²	450cd/m²	450cd/m²
	Touch panel	4-wire high precision touch panel	4-wire high precision touch panel	4-wire high precision touch panel
	Display colors	16.77 million	16.77 million	16.77 million
	Backlight Module	LED	LED	LED
Hardware	Storage	128 MB DDR	128 MB DDR	128 MB DDR
	CPU	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core
	RAM	128MB Flash	128MB Flash	128MB Flash
Other parameters	FCC Compatibility	Complies with FCC, Class A	Complies with FCC, Class A	Complies with FCC, Class A
	Withstand voltage test	1000V AC, 1 minute	1000V AC, 1 minute	1000V AC, 1 minute
	CE certification	Complies with EN55032 and EN55035 standards	Complies with EN55032 and EN55035 standards	Complies with EN55032 and EN55035 standards
	Protection class	IP65 (front panel)	IP65 (front panel)	IP65 (front panel)
	Digital input	16	16	10
	High-speed counter	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz	2 single-phase(X0、X2) 200kHz 2 single-phase(X1、X3) 20kHz
	AB phase counter	2AB phase count(X0X1、X2X3)200kHz	2AB phase count(X0X1、X2X3)200kHz	2AB phase count(X0X1、X2X3)200kHz
	Digital output	16 transistors, including 4 high speed 200KHZ pulse outputs	16 transistors, including 4 high speed 200KHZ pulse outputs	10-way transistor, 3-way relay
	Thermocouple input	1-channel K/T type thermocouple	1-channel K/T type thermocouple	NO
	RTD Input	NO	NO	4-channel PT100/NI120
	Analog input	1-channel Current/Voltage	1-channel Current/Voltage	4-channel Current/Voltage input
	Analog output	NO	NO	1-channel Current/Voltage output
	IO extensions	Up to 16 channels	Up to 16 channels	Up to 16 channels
	Temperature module extensions	With the plug-in, can be connected to 8 ways, support thermocouple / PT100		
	Analog module extensions	Through the plug-in, 8 channels can be connected		
	Configuration Software	SKTOOL7.1	SKTOOL7.1	SKTOOL7.1
Interface	IoT extension module	support 4G module/WIFI module	NO	NO
	USB port	YES	YES	YES
	U disk port	YES	YES	YES
	PLC communication port	NO	NO	1 RS485
	HMI communication port	1 RS485	1 RS485	1 RS485
	Ethernet interface	YES	YES	YES

Product Size

4.3 inch



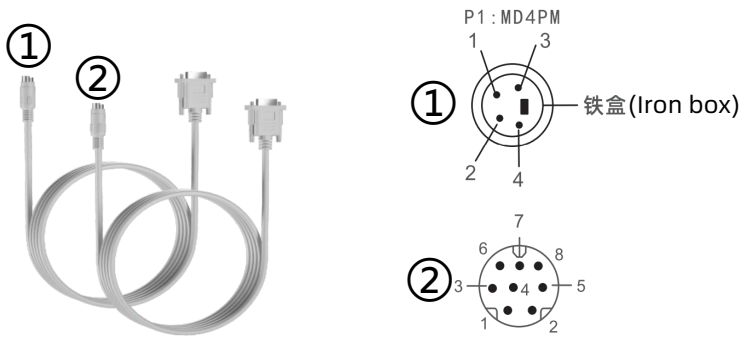
7 inch



USB download cable

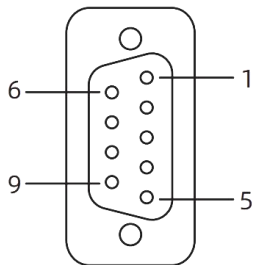
Product image	Corresponding product model
	FAT Series: FAT-16MT-DC-E, FAT-16MT-DC-N, FAT-32MT-DC FAs Series: FAs-66MT-AC-N, FAs-66MT-AC-E, FAs-66MR-AC-N, FAs-66MR-AC-E, FAs-50MT-AC-N, FAs-50MT-AC-E, FAs-50MR-AC-N, FAs-50MR-AC-E, FAs-32MT-AC-N, FAs-32MT-AC-E, FAs-32MR-AC-N, FAs-32MR-AC-E, FAs-20MT-AC, FAs-20MR-AC, FAs-40MR-AC, FAs-40MT-AC, FAs-16HT-AC Expansion Module : S-E16T, S-E16T-C, S-16T, S-16T-M, S-E16X-C, S-E8X8T, S-E8X8T-C, S-8X8T, S-8X8T-M, S-E8X8R, S-E12R, S-E4TC4T, S-E4PT4T, S-E4AI4T, S-E4AI2AO GT Series: GT-043-16MT, GT-070-32MT-G, GT-070-32MT, GT-070-32MT-8PT, GT-070-32MT-8PT-G, GT-070-30MR-G, GT-070-30MR, GT-070-32MT-8TC, GT-070-32MT-8TC-G, GT-070-26MR-1TC1AI, GT-070-26MR-1TC1AI-G, GT-070-23M-PTAIO
	FAs Series: FAs-40HT-AC, FAs-22HT-AC, FAs-16MT-AC, FAs-20MT-AC, FAs-20MR-AC, FAs-40MR-AC, FAs-40MT-AC PRO、MAX Series Bus PLC: PRO-C 16X16T A, MAX-C 16X16T A FGR Series: FGRB-C8X8T-2/2, FGRS-C8X8T-4/4, FGRB-C8X6R
	FGs Series: FGs-16MT-AC, FGs-16MR-AC, FGs-32MT-AC, FGs-32MR-AC, FGs-48MT-AC, FGs-48MR-AC, FGs-64MT-AC, FGs-64MR-AC

Communication Cable



illustrate:

- ①FAs series PLC、FAT series PLC Communication Cable
- ②FGR serie PLC、FGs serie PLC、FGm series PLC Communication Cable



DB9M(Male head)

SK series communication port 9-pin arrangement diagram of male seat

PIN	RS232	RS422	RS485
1			
2	RX		
3	TX		
4			
5	GND		
6		RX-	
7		RX+	
8		TX-	B-
9		TX+	A+

This port is used to connect PLC or other controllers with RS232/RS422/RS485 communication ports

- 1. The USB communication cable is used for uploading and downloading project filesf connecting the PC and the man-machine interface;
- 2.The communication cable connects the PLC and the man-machine interface to realize data communication, and the corresponding cable can be selected according to the PLC model used by the customer;

Note: Before using please read the product manual In detail.