

Samkoon Product Portfolio

HMI | PLC | HMI+PLC All-in-one | Servo Drive | VFD



Focus on the R&D and manufacturing of automation products, and provide complete solutions for Industry 4.0



HMI

- SK Series



Control Unit

- FAs Series PLC
- FAT Series PLC
- PRO, MAX Series Bus PLC
- GT Series All-in-One
- GX Series All-in-One



Drive

- R8 Series Servo Drive
- HK Series Servo Motor
- M9 Series Drive & Control All-in-One
- SK300 Series VFD



Introduction

Founded in March 2007, Shenzhen Samkoon Technology Co., Ltd. (Samkoon) is a leading innovator in industrial automation solutions in China. With a global presence in over 40 countries and a customer base of more than 14,000 clients, Samkoon is committed to driving the future of smart manufacturing through cutting-edge technology and reliable engineering.

Samkoon specializes in advanced, high-performance industrial control products including Human-Machine Interfaces (HMI), Programmable Logic Controllers (PLC), integrated HMI+PLC solutions, servo systems, Variable Frequency Drives (VFD), and Industrial IoT platforms. Every solution is engineered for precision, efficiency, and long-term reliability.

Vision

- To be a leading provider of intelligent manufacturing solutions in China.

Mission

- To support the upgrade of China' s intelligent manufacturing with high-performance, reliable industrial automation solutions.

Value

- Customer-focused, innovation-driven development.

60,000+ m²

Factory

300+

Global employees

20+

Intellectual property rights

45,000+

Automation projects

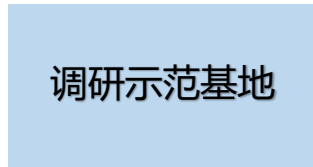


Company History



2007

Samkoon was founded and released 260,000 true-color LCD HMI series products



2009

Honored as the 'Industrial Control Research Demonstration Base' by the National Science and Technology Regulatory Commission.



2011

Awarded as "National High-tech Enterprise"



2012

Successfully developed the Samkoon PLC and launched the compiled PLC after three years of development, achieving a tenfold increase in scanning speed.



2017

Partnered with HUST to establish a research base for postgraduate studies.



2017

Held a new product launch at the Shenzhen Xilihu Conference Center to showcase our leadership in industrial control with four core technologies.



2018

Signed a cooperation agreement with THU, officially becoming the practice base for PhD students in automation.



2019

Constructed a 20,000m² production plant in the Shenzhen-Shanwei Cooperation Zone, accelerating industrialization and standardization.



2021

Samkoon Technology was selected as a governing member of the Shenzhen Advanced Manufacturing Federation.



2022

Samkoon Technology has been recognized as a 'Specialized, Refined, and New' small and medium-sized enterprise by Shenzhen.



2023

The groundbreaking ceremony for Samkoon Technology's Smart Automation Industrial Park was successfully held in the Shenzhen-Shantou Special Cooperation Zone, marking a significant milestone in the company's development and future growth.



2024

The Samkoon M9 bus servo drive makes its grand debut. Forging strategic partnerships with renowned clients such as Fanuc.



2025

Samkoon's nearly 60,000 m² intelligent automation industrial park – officially operational. Recognized as a national-level "Specialized, Refined, Distinctive, and Innovative (Little Giant)" enterprise.

Comprehensive Solutions in Industrial Automation and Digitalization

Industry Solutions:



Intelligent Manufacturing



Intelligent Vehicle



Intelligent Environmental Protection



Smart Energy



Smart Medical Care



Smart Agriculture



.....

Samkoon Cloud:



Industrial IoT



Digital Factory



Equipment Operation



Data Empowerment



Data Visualization

HMI layer



Waterproof HMI



High-Definition HMI



IoT HMI



Isolated Serial Port HMI



Hand-held teach pendant



Standard HMI



Network module

Control layer



FAs Series Standard PLC



FAT Series Mini PLC



GT series HMI+PLC All-in-one



GX series HMI+PLC All-in-one



PRO/MAX Series Bus PLC



Ultra Series PLC

Servo Drive



R8 Series Servo Drive (Ethercat type)



R8 Series Servo Drive (Pulse type)



M9 Bus Servo Driver

Execution/Sensor:



HK Series Motors



Industrial Robots



Temperature Sensors



Encoders



Solenoid Valves



Temperature Control Meters

HMI	01
SK Series Standard HMI	
IoT HMI	
Isolated Serial Port HMI	
IP67 Waterproof HMI	
High-Definition HMI	
Handheld Teach Pendant	
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FAT Series Mini PLC	
Bus-type PLC	
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R8 Series Servo Drive	
HK Series Servo Motor	
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HMI

The SK Series Human-Machine Interface (HMI) products feature a comprehensive lineup with display sizes ranging from 3.5 to 15.6 inches. Designed for versatility, the series offers multiple interface options—including Ethernet, serial, and USB ports—providing flexible connectivity solutions to meet a wide range of user requirements.

IoT HMI | Serial Port Isolated HMI | Waterproof HMI | HD HMI | Handheld Teach Pendant

Naming Rules



- ① SK: SK Series HMI
- ② H: high-performance
T: hand-held
- ③ 035: 3.5"
043: 4.3"
050: 5.0"
057: 5.7"
070: 7.0"
102: 10.2"
121: 12.1"
150: 15"
156: 15.6"
- ④ A/B/F/H/C/G/M/X/Q:
different cutout size

070: A/F/G same
cutout size
070: B/H/M/Q same
cutout size
- ⑤ E: Without Ethernet port
S: With Ethernet port
G: Equipped with 4G
module
D: With Ethernet port and
CAN bus support
W: With Wi-Fi module
T: With external RS485
terminal
F: Waterproof
H: High-definition display
- ⑥ G: IoT HMI



SK Series Standard HMI

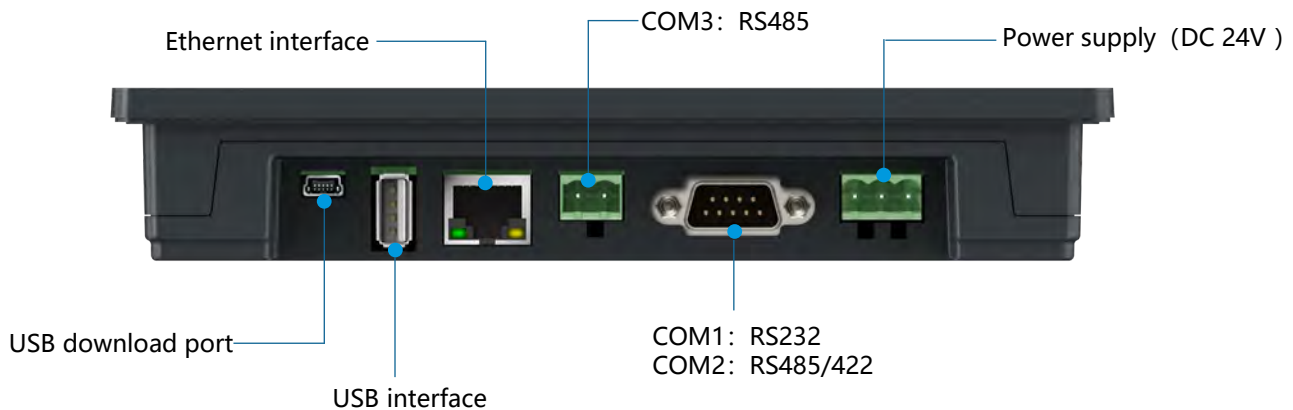
Product Features

High-performance configuration

- Based on Linux system, which is stable, efficient, safe and reliable
- Industrial high-performance Cortex A7 processor up to 1GHz. dual core
- High capacity 256MB FLASH+128MB DDR3, support external U disk storage

Multiple Interfaces

- Support multiple communication modes (RS232/422/485, Ethernet)
- Support usb download, ethernet download, U disk update configuration



Diversified Functional Modules

- Support multi-group formula, multi-window function
- Support shorthand collection, data alarm function
- Support macro instruction based on C language development
- Support more than 300 PLC communication protocols
- Support 50 languages
- Multifunctional and control diversification

Brand New Code System

- Configuration file encryption
- Multiple security systems, safe and reliable
- Installation payment, HMI protection
- 16,770,000 true color display
- Qualified by FCC, ClassA and CE

Product Index

HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Product Models & Specifications

Model	SK-035UE	SK-043QE	SK-043QT	SK-043QS	SK-070QE	SK-070QT	SK-070QS	SK-102QS	
Structure and environment	Size(mm)	96 x 81 x 47	139 x 86 x 31			203 x 145 x 35			273 x 211 x 40
	Cutout size (mm)	92 x 77	132 x 80			192 x 138			259 x 201
	Display size (mm)	3.5"(4:3)	4.3"(16:9)			7"(16:9)			10.2"(16:9)
	Weight (g)	200	200	200	214	700	700	700	1050
	Working temperature	-20°C~55°C (no freezing)							
	Working humidity	5~95% (non-condensing)							
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)							
	Shell material	Engineering plastic ABS+PC							
Power supply	Power consumption	3W			4W			7W	
	Voltage	(DC12~24V)±15%							
	Static level	±6kV							
Display	Resolution (PX)	320 x 240	480 x 272			800 x 480			1024 x 600
	Contrast	400:1							
	Brightness (cd/m ²)	350	400			450			
	Touch panel	4-wire high precision touch panel							
	Display colors	16.77 million							
	Backlight	LED							
Hardware	Storage	128MB DDR3							
	CPU	Cortex A8 600MHz	Cortex A7 1GHz. Dual Core						
	RAM	128MB FLASH							
Interface	Network	No	No	No	Ethernet	No	No	Ethernet	Ethernet
	USB download port	1x Type C	1x Type C	1x Type C	1x Type C	1x Type C	1x Type C	1x Type C	1x Type C
	USB interface	No	1x Type A	1x Type A	1x Type A	1x Type A	1x Type A	1x Type A	1x Type A
	Serial port	COM:RS232/422/485	COM1:RS232 COM2:RS485/422	COM1:RS232 COM2:RS485/422	No	COM1:RS232 COM2:RS485/422	COM1:RS232 COM2:RS485/422	COM1:RS232 COM2:RS485/422	COM1:RS232 COM2:RS485/422 COM3:RS485
	Wiring port	No	No	COM2:RS485	COM1:RS485	No	COM3:RS485	COM3:RS485	No
Other parameters	FCC Compatibility	Complies with FCC, Class A							
	Withstand voltage test	1000V AC, 1 minute							
	CE certification	Complies with EN55032 and EN55035 standards							
	Protection class	IP65(front panel)							
	Configuration Software	SKTOOL							

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SK300 Series VFD

SK Series IoT HMI

Samkoon IoT Human-Machine Interface (HMI) can be easily connected to the Internet through a dedicated IoT expansion module. This module attaches securely to the main HMI unit with convenient fasteners, delivering true plug-and-play functionality for effortless installation and setup.



The Samkoon IoT expansion module offers both Wi-Fi and 4G connectivity options, supports integration with display control cloud platforms, and features plug-and-play functionality for easy installation.

Product Features

Abundant interfaces and powerful communication capabilities

- Support multiple communication modes (RS232/422/485, Ethernet, WIFI, 4G)
- Support usb download, U disk update configuration

VNC function

- Easily synchronize HMI data and screen content with both PC and mobile devices. Users can remotely monitor and control the touch screen in real time—anytime, anywhere, without the need to be on-site.
- Support display control Cloud 3.0

Remote transparent transmission

Supports remote downloading and real-time monitoring of PLC programs, helping engineers troubleshoot and maintain systems without the need for on-site visits.



Product Models & Specifications

Model		SK-070QE-G	SK-070QS-G	SK-102QS-G	SK-156QS-G
Structure and environment	Size(mm)	203 × 145 × 35	203 × 145 × 35	273× 211× 40	395×257×31
	Cutout size (mm)	192 × 138	192 × 138	259× 201	383×246
	Display size (mm)	7"(16:9)	7"(16:9)	10.2"(16:9)	15.6"(16:9)
	Weight (g)	700	700	1050	2450
	Working temperature	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)
	Working humidity	5~95% (non-condensing)	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)	10 ~ 25HZ (XYZ direction 2G/30 minutes)
	Shell material	Engineering plastic ABS+PC	Engineering plastic ABS+PC	Engineering plastic ABS+PC	Engineering plastic ABS+PC
Power supply	Power supply	(DC12~24V)±15%	(DC12~24V)±15%	(DC12~24V)±15%	(DC12~24V)±15%
	Power consumption (W)	4	4	7	10
	Static level	±6kV	±6kV	±6kV	±6kV
Display	Resolution (PX)	1024X600	1024X600	1024 × 600	1920×1080
	Contrast	400:1	400:1	400:1	700:1
	Brightness (cd/m²)	450	450	451	300
	Touch panel	4-wire high precision 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	16.77 million
	Backlight	LED	LED	LED	LED
Hardware	Storage	128MB DDR3	128MB DDR3	128MB DDR3	256MB DDR3
	CPU	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core	Cortex A7 1.2GHz
	RAM	128MB FLASH	128MB FLASH	128MB FLASH	4G (EMMC)
Interface	Network interface	No	Ethernet	Ethernet	Ethernet
	WIFI	Optional	Optional	Optional	Optional
	4G	Optional	Optional	Optional	Optional
	USB download port	1x Type C	1x Type C	1x Type C	1x Type C
	USB interface	1x Type A	1x Type A	1x Type A	1x Type A
	Serial interface	COM1: RS232 COM2: RS485/422	COM1: RS232 COM2: RS485/422	COM1: RS232 COM2: RS485/422 COM3: RS485	COM1: RS232 COM2: RS485/422 COM3: RS485
	Wiring port	No	COM3 : RS485	No	No
Other parameters	FCC Compatibility	Complies with FCC, Class A	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	1000V AC, 1 minute
	CE certification	Comply with EN55032 and EN55035 standards	Comply with EN55032 and EN55035 standards	Comply with EN55032 and EN55035 standards	Comply with EN55032 and EN55035 standards
	Protection class	IP65 (front panel)	IP65 (front panel)	IP65 (front panel)	IP65 (front panel)
	Configuration software	SKTOOL	SKTOOL	SKTOOL	SKTOOL

Product Index

HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

HMI+PLC All-in-One

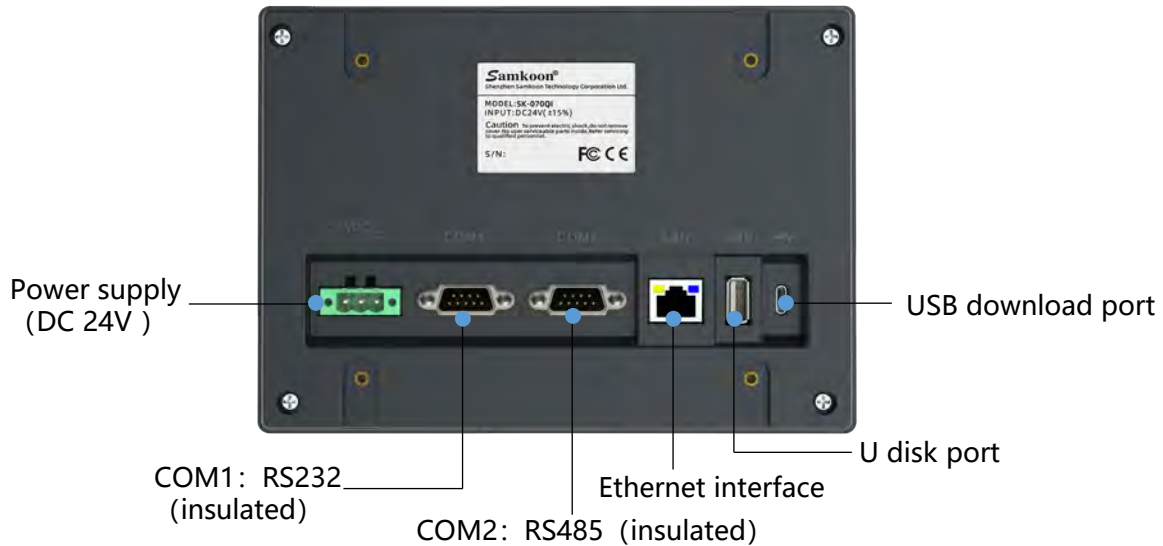
R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

SK Series Isolated Serial Port HMI I SK-070QI

Samkoon 7-inch HMI features serial port isolation that electrically separates the display from connected devices. This design effectively protects against external interferences such as static electricity, surges, and harmonics—ensuring stable communication and reliable protection for internal components.



Product Features

- Serial port isolation, stable communication
- Adapt to various harsh environments, strong magnetic interference and other working situations
- Structural innovation, serial port vertical outlet
- Based on Linux system, which is stable, efficient, safe and reliable
- Industrial high-performance Cortex A7 processor up to 1GHz.dual core
- Support multiple communication modes (RS232/485,Ethernet).Support usb download

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HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Product Models & Specifications

Model		SK-070QI
Structure and environment	Size(mm)	203 × 145 × 35
	Cutout size (mm)	192 × 138
	Display size (mm)	7"(16:9)
	Weight (g)	543
	Working temperature	-20°C~55°C (no freezing)
	Working humidity	5~95% (non-condensing)
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)
	Shell material	engineering plastic ABS+PC
Power supply	Power consumption (W)	4
	Power supply voltage	(DC12~24V)±15%
	Static level	±6kV
Display	Resolution (PX)	800x480
	Contrast	400:1
	Brightness (cd/m ²)	450
	Touch panel	4-wire high precision touch panel
	Display colors	16.77 million
	Backlight Module	LED
Hardware	Storage	128MB DDR3
	CPU	Cortex A7 1GHz. Dual Core
	RAM	128MB FLASH
Interface	Network interface	1x RJ45
	USB download port	1x Type C
	USB interface	1x Type A
	Serial interface	COM1: RS232 (insulated) COM2: RS485 (insulated)
Other parameters	FCC Compatibility	Complies with FCC, Class A
	Withstand voltage test	1000V AC, 1 minute
	CE certification	Comply with EN55032 and EN55035 standards
	Protection class	IP65(front panel)
	Configuration Software	SKTOOL

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HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

SK Series IP67 Waterproof HMI | SK-070QF

Designed for harsh industrial environments!

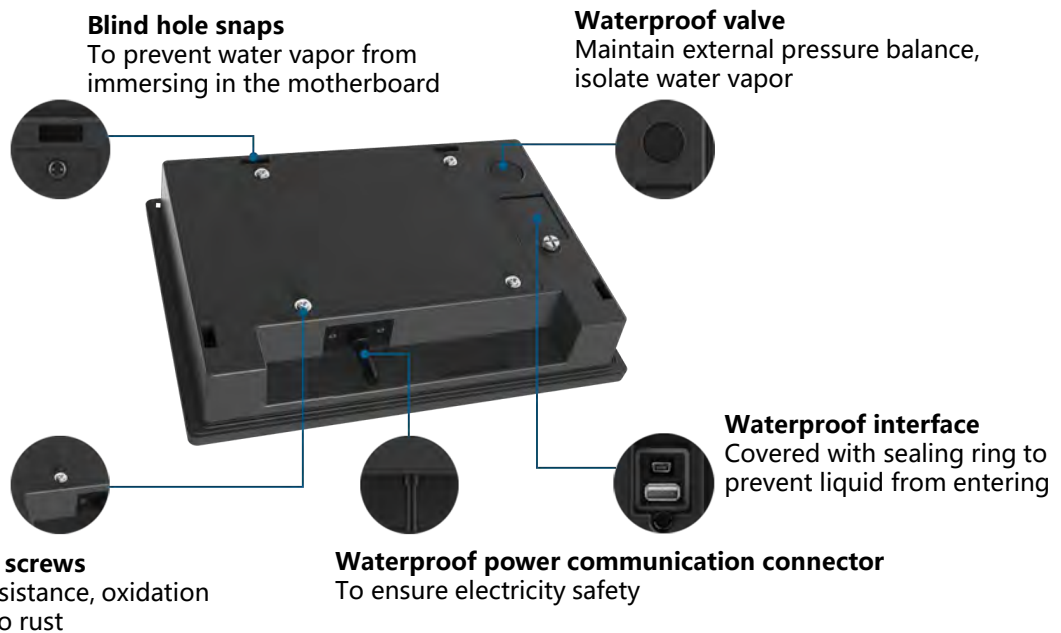
Protection class: IP67(Whole machine)



Product Features

- Based on Linux system, which is stable, efficient, safe and reliable
- Industrial high-performance Cortex A7 processor up to 1GHz.dual core
- Diversified functional modules:multifunctional and control diversification
- Multiple interface embedding: RS485/USB download port/U disk port
- High-standard quality control:Qualified by FCC, ClassA and CE
- Protection class: IP67(Whole machine)

Exterior structure



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HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Product Models & Specifications

Model		SK-070QF	SK-102QF	SK-102QF-W
Structure and environment	Size(mm)	204 × 148 × 36	276.5 × 193.5 × 37.7	276.5 × 193.5 × 37.7
	Cutout size (mm)	192 × 138	263x180	263x180
	Display size (mm)	7"(16:9)	10.2"(16:9)	10.2"(16:9)
	Weight (g)	700	980	980
	Working temperature	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)
	Working 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 consumption (W)	4	7	7
	Power supply voltage	(DC12~24V)±15%	(DC12~24V)±15%	(DC12~24V)±15%
	Static level	±6kV	±6kV	±6kV
Display	Resolution (PX)	800x480/1024x600	1024x600	1024x600
	Contrast	400:1	400:1	400:1
	Brightness (cd/m²)	450	450	450
	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 DDR3	128MB DDR3	128MB DDR3
	CPU	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core	Cortex A7 1GHz. Dual Core
	RAM	128MB FLASH	128MB FLASH	128MB FLASH
Interface	WIFI	No	No	1
	USB download port	1 Type C	1 Type C	1 Type C
	USB interface	1 Type A	1 Type A	1 Type A
	Serial interface	COM1:RS485	COM1:RS485	COM1:RS485
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	IP67(Whole machine)	IP67(Whole machine)	IP67(Whole machine)
	Configuration Software	SKTOOL	SKTOOL	SKTOOL

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HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

SK Series High Definition HMI I SK-070QH

Samkoon high-definition HMI screen delivers sharper visuals and enhanced brightness. With refined image quality, users can view details more clearly and enjoy a more comfortable, immersive visual experience—greatly improving the efficiency and quality of human-machine interaction.

High-definition highlight

Smooth operation

Visual enjoyment

System stability



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HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Product Features

- Based on Linux system, which is stable, efficient, safe and reliable
- Industrial high-performance Cortex A7 processor up to 1GHz.dual core
- High capacity 128MB FLASH+128MB DDR3, support external U disk storage
- Support multiple communication modes (RS232/422/485) , Support usb download、U disk update configuration
- Multiple security systems, safe and reliable
- Qualified by FCC, ClassA and CE
- Higher resolution, better picture quality

Product Models & Specifications

Model		SK-070QH
Structure and environment	Size(mm)	203 × 145 × 35
	Cutout size (mm)	192 × 138
	Display size (mm)	7"(16:9)
	Weight (g)	700
	Working temperature	-20°C~55°C (no freezing)
	Working humidity	5~95% (non-condensing)
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)
	Shell material	Engineering plastic ABS+PC
Power supply	Power consumption (W)	4
	Power supply voltage	(DC12~24V)±15%
	Static level	±6kV
Display	Resolution (PX)	1024x600
	Contrast	400:01:00
	Brightness (cd/m ²)	450
	Touch panel	4-wire high precision touch panel
	Display colors	16.77 million
	Backlight Module	LED
Hardware	Storage	128MB DDR3
	CPU	Cortex A7 1GHz. Dual Core
	RAM	128MB FLASH
Interface	USB download port	1x Type C
	USB interface	1x Type A
	Serial interface	COM1: RS232 COM2: RS485/422
	Wiring port	COM3: RS485
Other parameters	FCC Compatibility	Complies with FCC, Class A
	Withstand voltage test	1000V AC, 1 minute
	CE certification	Comply with EN55032 and EN55035 standards
	Protection class	IP65(front panel)
	Configuration Software	SKTOOL

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FAs Series PLC

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HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

SK Series Hand-held Teach Pendant I SK-T070XS

Samkoon hand-held teach pendant is specifically designed for applications such as industrial robotics. Its ergonomic design enables comfortable single- or dual-hand operation, ensuring ease of use during extended tasks. Built for durability, it incorporates industrial-grade protection, making it a dependable solution widely utilized in manufacturing, robotics, and other industrial environments.



Product Features

- The structure is ergonomically designed, and can be easily held by one hand or both hands
- Industrial grade protection grade, high reliability, durable
- The back has a magnetic suction function, which can be sucked against the machine equipment or control cabinet
- Based on Linux system, which is stable, efficient, safe and reliable
- Industrial high-performance Cortex A8 processor up to 600MHz
- High capacity 256MB FLASH+512MB DDR3, support external U disk storage

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HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Product Models & Specifications

Model		SK-T070XS
Structure and environment	Size(mm)	258x195.4x65.1
	Cutout size (mm)	NO
	Display size (mm)	7"(16:9)
	Weight (g)	510
	Working temperature	-20°C~55°C (no freezing)
	Working humidity	5~95% (non-condensing)
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)
	Shell material	Engineering plastic ABS+PC
Power	Power consumption (W)	5
supply	Power supply voltage	(DC12~24V)±15%
	Static level	±6kV
Display	Resolution (PX)	1024x600
	Contrast	400:01:00
	Brightness (cd/m ²)	450
	Touch panel	4-wire high precision touch panel
	Display colors	16.77 million
	Backlight Module	LED
Hardware	Storage	512MB DDR3
	CPU	Cortex A8 800MHz
	RAM	256MB FLASH
Interface	Network interface	Ethernet
	USB download port	1x Type C
	USB interface	1x Type A
	Serial interface	COM1:RS232/485/422
Other parameters	FCC Compatibility	Complies with FCC, Class A
	Withstand voltage test	1000V AC, 1 minute
	CE certification	Complies with EN55032 and EN55035 standards
	Protection class	IP65(front panel)
	Configuration Software	SKTOOL

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FAs Series PLC

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HMI+PLC All-in-One

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

PLC

Samkoon PLC comprises over 100 product models, covering small PLCs, medium PLCs, production-line-level PLCs, and more. Designed for a wide range of applications—including motion control, logic control, process control, temperature control, and communication networking—it also supports scenarios with strict space requirements. This extensive lineup ensures the diverse needs of customers are fully met.

FAs Series PLC | FAT Series PLC | PRO, MAX Series Bus PLC

Naming Rules



① FAs: FAs series

- ② 16: Input/output in total 16 (8DI/8DO)
- 20: Input/output in total 20 (12DI/8DO)
- 22: Input/output in total 22 (12DI/10DO)
- 32: Input/output in total 32 (16DI/16DO)
- 50: Input/output in total 50 (26DI/24DO)
- 66: Input/output in total 66 (34DI/32DO)

- ③ MR: Relay output
MT/HT: Transistor output
- ④ A: AC power supply
- ⑤ C: Compiled type
- ⑥ E: With Ethernet port
N: Without Ethernet port



- ① FAT: FAT series PLC
- ② 16: Input/output in total 16 (8DI/8DO)
- 32: Input/output in total 32 (16DI/16DO)
- ③ MT: Transistor output

- ④ D: DC power supply
- ⑤ C: Compiled type
- ⑥ E: With Ethernet port
N: Without Ethernet port



Naming Rules of S Series Expansion Modules

S - E 8X 8T - C

① ② ③ ④ ⑤

- ①S: S series Expansion Module
- ② Default: Main module with high-speed count/pulse output (4-way)
E: Without high-speed counter/pulse output
- ③8X: 8 Digital inputs
4TC: 4-Way thermocouple input
4PT: 4-Way temperature measurement
4AI: 4 Analog inputs
- ④8T: 8 Digital outputs
8R: 8-Channel relay output
2AO: 2 Analog outputs
- ⑤C: With CAN port
M: Can only be used as a host, not as an expansion module
Default: Support RS485 communication



Note: S series expansion module is applicable to FAs and FAT series PLC.

Naming Rules of F Series Expansion Modules

F - 2AI 1AO

① ② ③

- ① F: F series Plugin Extension
- ② 8X: 8 Inputs
4TC: 4-Way thermocouple input
4PT: 4-Way temperature measurement
2AI: 2 Analog inputs
- ③ 8T: 8 Outputs
1AO: 1 Analog outputs
4R: 4-Channel relay output



Note: F series plug-in expansion is applicable to FAs series PLC, GT series HMI+PLC all-in-one.

FAs Series PLC

The Samkoon FAs Series PLC is a new-generation programmable logic controller developed after years of research and practical industry experience. Built with a high-performance 32-bit ARM® Cortex-M4 core, it offers fast processing speed, robust anti-interference capabilities, and stable operation even under power fluctuations. Equipped with rich communication interfaces and advanced motion control functions, the FAs Series PLC is designed to meet diverse industrial automation needs with efficiency, reliability, and flexibility.

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HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

GX Series

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

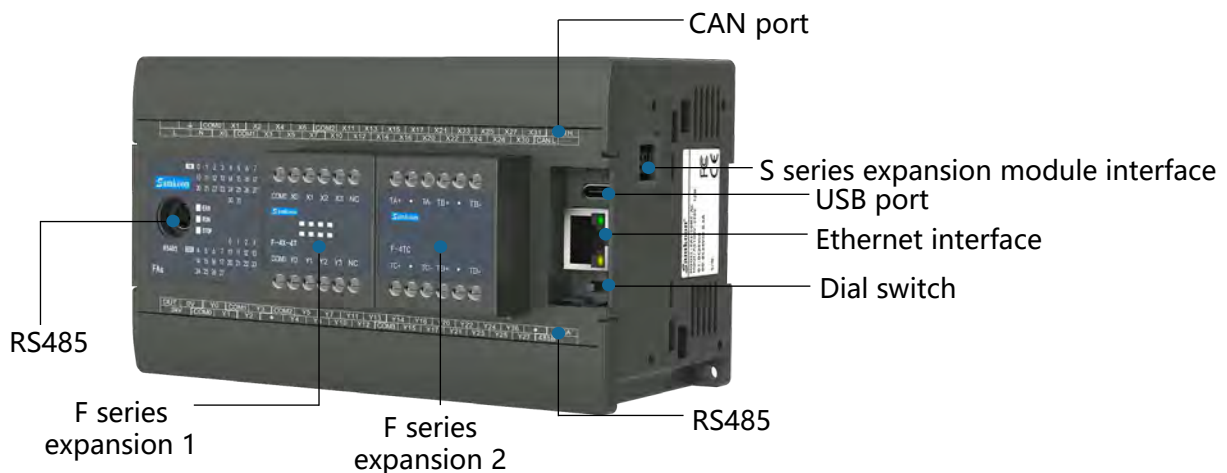
Product Features

Powerful hardware and software configuration

- Powered by a 32-bit Arm® Cortex®-M4 processor (200 MHz), the system offers strong anti-interference performance and stable operation. Compiled software ensures ultra-fast scan cycles—over 10× faster than interpreted PLCs.

Flexible communication interfaces

- Ethernet interface supporting Modbus TCP/IP
- RS485 port supporting Modbus RTU and free protocols
- Full-speed USB port for program download
- PLC download, monitoring, and debugging available through any communication port



FAs Series PLC

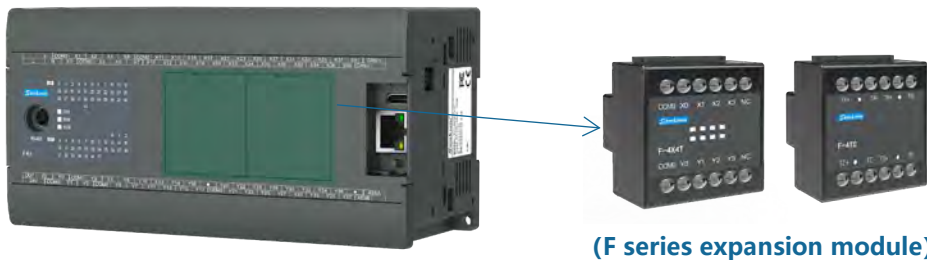
Flexible and comprehensive performance

- Ethernet host supports 4-channel high-speed pulse output and 8-channel high-speed counting input, delivering powerful motion control performance. With CAN communication expansion, up to 64 modules can be connected at a maximum rate of 1 Mbps.



Supports up to **64** expansion modules

- The expansion module can be used as an independent control unit to run the program
- The front supports 2 small plug-in expansion modules, which can be combined with digital IO modules, analog modules, and temperature modules arbitrarily



(F series expansion module)

SamSoar2022 – Fast, Secure, and Compatible

- Compile in <0.5 s, download in <3 s, and edit online.
- Supports IL, FBD, and SFC programming with customizable UI and C-language function blocks.
- Adopts a compiled, non-decodable architecture for maximum security.
- Compatible with competing PLCs, allowing direct ladder program conversion.
- PLC programs can be downloaded via the HMI.

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Product Models & Specifications

Model		FAs-16MT-AC	FAs-20MT/MR-AC	FAs-32MT/MR-AC-E	FAs-40MT/MR-AC	FAs-50MT/MR-AC-E	FAs-66MT/MR-AC-E
Structure and environment	Size (mm)	70 × 97 × 81	86 × 97 × 81	125 × 97 × 81	125 × 97 × 81	163 × 97 × 81	194 × 97 × 81
	Weight (g)	305	465	500	525	580	690
	Working temp.	-20°C~55°C (no freezing)					
	Working humidity	5~95%RH (non-condensing)					
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)					
Power supply	Voltage	AC100V ~ 240V					
Input parameter	High-speed counter	2 single-phase(X0, X1) 200kHz	2 single-phase(X0, X1) 200kHz	2 single-phase(X0, X2) 200kHz, 2 single-phase(X1, X3) 20kHz	2 single-phase(X0, X1) 200kHz	4 single-phase(X0, X2, X4, X6) 200kHz	4 single-phase(X0, X2, X4, X6) 200kHz
	AB phase counter	1AB phase count (X0X1) 100kHz	1AB phase count (X0X1) 100kHz	2AB phase count (X0X1, X2X3) 200kHz	1AB phase count (X0X1) 100kHz	4AB phase count (X0X1, X2X3, X4X5, X6X7) 200kHz	4AB phase count (X0X1, X2X3, X4X5, X6X7) 200kHz
	Digital input	8	12	16	22	26	34
	Input wiring	Supports sink/source, which can be converted by internal common terminal S/S and external common wiring					
	Signal voltage	DC24V±20%					
Output parameters	Maximum inductive load	6W	MT: 6W MR: 80VA	MT: 6W MR: 80VA	MT: 6W MR: 80VA	MT: 6W MR: 80VA	MT: 6W MR: 80VA
	Maximum resistance load	0.3A per point, 1A per common	Transistor: 0.3A per point, 1A per common Relay: 2A per point, 4A per common	Transistor: 0.3A per point, 1A per common Relay: 2A per point, 4A per common	Transistor: 0.3A per point, 1A per common Relay: 2A per point, 4A per common	Transistor: 0.3A per point, 1A per common Relay: 2A per point, 4A per common	Transistor: 0.3A per point, 1A per common Relay: 2A per point, 4A per common
	Digital output	8 Transistor outputs with 2 high speed 200kHz pulse outputs	MT: 8 transistors with 2 high speed 200kHz pulse outputs MR: 8 relay outputs	MT: 16 transistors with 4 high speed 200kHz pulse outputs MR: 16 relay outputs	MT: 18 transistors with 2 high speed 200kHz pulse outputs MR: 18 relay outputs	MT: 24 transistors with 4 high speed 200kHz pulse outputs MR: 24 relay outputs	MT: 32 transistors with 4 high speed 200kHz pulse outputs MR: 32 relay outputs
	Output voltage	24V					
	RS485	1	2	2	2	2	2
Interface	USB download port	1x Type C. Support upload and download, online monitoring					
	Ethernet port	No	No	1x RJ45	No	1x RJ45	1x RJ45
	Front expansion slot	No	No	1	No	2	2
	Right expansion module	No	No	Supports up to 64 expansion modules	No	Supports up to 64 expansion modules	Supports up to 64 expansion modules
	FCC compatibility	Compatibility Complies with FCC, Class A					
Other parameters	High-voltage insulation test	Withstand voltage test 1000V AC, 1 minute					
	CE certification	Complies with EN55032 and EN55035 standards					
	Protection class	IP30					
	Software	SamSoar2022					

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HK Series Servo Motor

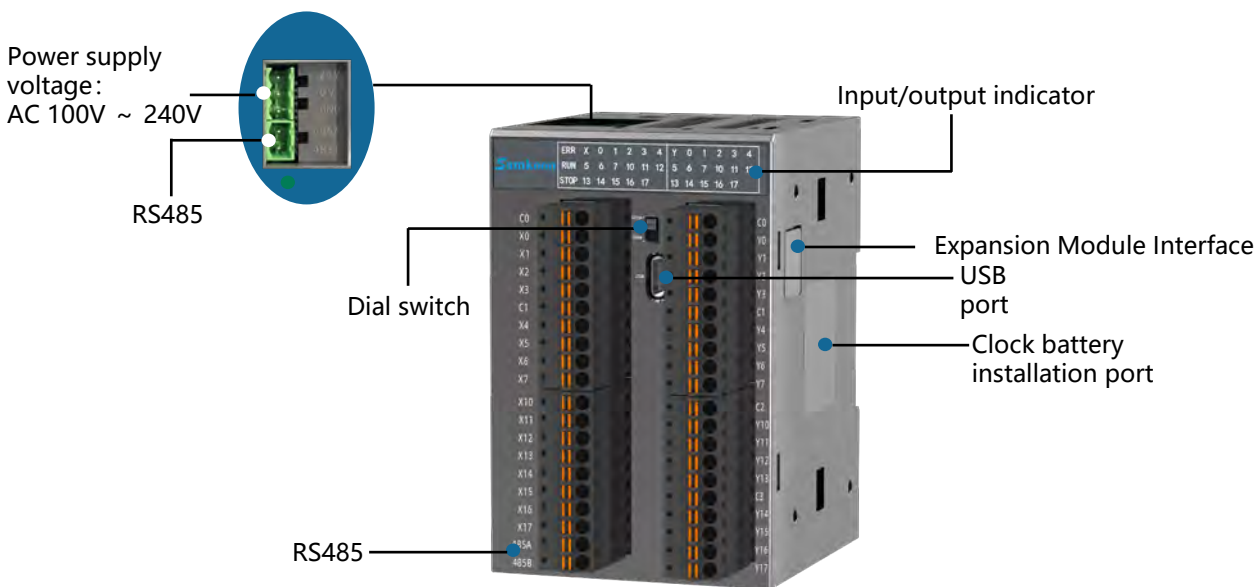
SK300 Series VFD

FAT Series PLC

This high-speed PLC controller is designed for advanced industrial automation applications, built on a 32-bit Arm® Cortex-M4 microcontroller running at 200MHz. It features 4 high-speed pulse outputs and 4 high-speed counting inputs, enabling powerful motion control and precise synchronization.

Product Features

- Ethernet host supports 4-way high-speed pulse output, 4-way high-speed counting input, with powerful motion control function
- Based on the right expansion module of CAN communication, the maximum communication rate can reach 1Mbps, and 64 expansion modules can be expanded
- Fast speed (compiled architecture executing the native code directly, more than 10 times faster than interpreted architecture)
- Fine security (upload, download, monitor the password, upload forbidden, file code, subprogram password, Function performance block code)
- Abundant communication interface (ethernet interface, support Modbus TCP/IP protocol; RS485 communication port, support Modbus RTU and free communication protocol; 1 full speed USB download port)



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GT Series

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R8 Series Servo Drive

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SK300 Series VFD

Product Models & Specifications

Model		FAT-16MT-DC-E	FAT-16MT-DC-N	FAT-32MT-DC
Structure and environment	Size (mm)	64×97×72	64×97×72	64×97×72
	Weight (g)	239	239	205
	Working temperature	-20°C~55°C (no freezing)		
	Working humidity	5~95% (non-condensing)		
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)		
Power supply	Power supply	DC 24V±20%		
Input parameter	High-speed counter	2 single-phase (X0, X2) 200kHz, 2 single-phase(X1, X3) 20kHz		
	AB phase counter	2 AB phase count (X0X1, X2X3) 200kHz		
	Digital input	8	8	16
	Input wiring	Supports SINK/SOURCE (sink/source), which can be converted by internal common terminal S/S and external common wiring		
	Input signal voltage	DC24V±20%		
Output parameters	Maximum inductive load	6W		
	Maximum resistance load	0.3A per point, 1A per common		
	Pulse output	4 channels 200KHz		
	Digital output	8	8	16
	Output Type	Transistor/NPN		
Interface	RS485	2	2	2
	USB download port	1x Type C. Support upload and download, online monitoring		
	Ethernet	1x RJ45	No	No
	Right expansion module	Supports up to 64 expansion modules		
Other parameters	FCC compatibility	Compatibility Complies with FCC, Class A		
	high-voltage insulation test	Withstand voltage test 1000V AC, 1 minute		
	CE certification	Complies with EN55032 and EN55035 standards		
	Protection class	IP30		
	Software	SamSoar2022		

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S Series Expansion Module

Product Models & Specifications

Model		S-8X8T	S-16T	S-E16T	S-E16T-C	S-E16X-C	S-E8X8T	S-E8X8T-C	S-E8X8R	S-E12R
Structure and environment	Size (mm)	30x97x72								
	Weight (g)	109								
	Working temperature	-20°C~55°C (no freezing)								
	Working humidity	5~95% (non-condensing)								
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)								
Power supply	Power supply voltage	DC 24V±20%								
Digital input	Digital input	8	/	/	/	16	8	8	8	/
	High-speed counter	2 single-phase (X0,X2) 200kHz 2 single-phase (X1,X3) 20kHz	/							
	AB phase counter	2AB phase count (X0X1,X2X3) 200kHz	/							
	Input wiring	Supports SINK/SOURCE (sink/source), which can be converted by internal common terminal S/S and external common wiring	/	/	/	Supports SINK/SOURCE (sink/source), which can be converted by internal common terminal S/S and external common wiring				/
	Input signal voltage	DC24V±20%	/	/	/	DC24V±20%	DC24V±20%	DC24V±20%	DC24V±20%	/
Digital output	Digital output	8	16	16	16	/	8	8	8	12
	Output Type	Transistor NPN	Transistor NPN	Transistor NPN	Transistor NPN	/	Transistor NPN	Transistor NPN	Relay	Relay
	Maximum inductive load	6W	6W	6W	6W	/	6W	6W	80VA	80VA
	Maximum resistance load	0.3A per point, 1A per common				/	0.3A per point, 1A per common			
	Pulse output	4 channels 200KHz	4 channels 200KHz	/						
Interface	RS485	1	1	1	1	1	1	No	1	1
	CAN	No	No	No	1	1	No	1	No	No
	USB port	Type C. Support upload and download,online monitoring								
	Expansion	Yes								
Other parameters	FCC compatibility	Compatibility Complies with FCC, Class A								
	High-voltage insulation test	Withstand voltage test 1000V AC, 1 minute								
	CE certification	Complies with EN55032 and EN55035 standards								
	Protection class	IP30								
	Software	SamSoar2022								

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S Series Expansion Module

Product Models & Specifications

Model		S-E4TC4T	S-E4PT4T	S-E4AI4T	S-E4AI2AO	S-E4AO
Structure and environment	Size (mm)	30x97x72				
	Weight (g)	109				
	Working temperature	-20°C~55°C (no freezing)				
	Working humidity	5~95% (non-condensing)				
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)				
Power supply	Power supply	DC 24V±20%				
Analog input	Analog input	4	4	4	4	/
	Input type	K-type/ T-type thermocouples	Thermo resistor PT100	Voltage/ current	Voltage/ current	/
	Range	K-type: -50°C~800°C T-type: -260°C~400°C	-200°C~850°C	0~5V, 0~10V, 4~20mA	0~5V, 0~10V, 4~20mA	/
	Maximum input range	/	/	12V, 30mA	12V, 30mA	/
	Maximum resolution	0.1°C	0.1°C	0~5V: 1.25mV 0~10V: 2.5mV 4~20mA: 5µA	0~5V: 1.25mV 0~10V: 2.5mV 4~20mA: 5µA	/
	D/A conversion accuracy	16 bit	16 bit	16 bit	16 bit	/
	Overall measurement accuracy	±1°C	±0.5°C	±0.1°C	±0.1°C	/
Digital output	Digital output	4	4	4	/	/
	Output Type	Transistor NPN	Transistor NPN	Transistor NPN	/	/
	Maximum inductive load	6W	6W	6W	/	/
	Maximum resistance load	0.3A per point, 1A per common	0.3A per point, 1A per common	0.3A per point, 1A per common	/	/
	Pulse output	/	/	/	/	/
Analog output	Analog output	/	/	/	2	4
	Output Type	/	/	/	Voltage/current	Voltage/current
	Output range	/	/	/	0~5V, 0~10V, 4~20mA	0~5V, 0~10V, 4~20mA
	Maximum resolution	/	/	/	0~5V: 1.25mV 0~10V: 2.5mV 4~20mA: 5µA	0~5V: 1.25mV 0~10V: 2.5mV 4~20mA: 5µA
	Load impedance	/	/	/	≥2K@10V, ≥2K@5V, ≤500Ω@20mA	≥2K@10V, ≥2K@5V, ≤500Ω@20mA
	D/A conversion accuracy	/	/	/	12 bit	12 bit
	Overall measurement accuracy	/	/	/	±0.5°C	±0.5°C
Interface	RS485	1	1	1	1	1
	USB port	Type C. Support upload and download,online monitoring				
	Expansion	Yes				
Other parameters	FCC compatibility	Compatibility Complies with FCC, Class A				
	High-voltage insulation test	Withstand voltage test 1000V AC, 1 minute				
	CE certification	Complies with EN55032 and EN55035 standards				
	Protection class	IP30				
	Software	SamSoar2022				

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R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

F Series Expansion Module

Product Models & Specifications

Mode		F-4X4T	F-8X	F-8T	F-4R
Structure and environment	Size (mm)	39x46x33	39x46x33	39x46x33	39x46x33
	weight (g)	38	38	38	38
	Working temperature	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)
	Working humidity	5~95% (non-condensing)	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)	10 ~ 25HZ (XYZ direction 2G/30 minutes)
Power supply	Power supply	Host power	Host power	Host power	Host power
Digital input	Digital input	4	8	/	/
	Input signal voltage	DC24V±20%	DC24V±20%	/	/
Digital output	Maximum inductive load	6W	/	6W	80VA
	Maximum resistance load	Single point 0.3A, total point 1A	/	Single point 0.3A, total point 1A	Single point 1A, total point 2A
	Digital output	4	/	8	4
	Output Type	Transistor/NPN	/	Transistor/NPN	Relay
Other parameters	FCC compatibility	Compatibility Complies with FCC, Class A	Compatibility Complies with FCC, Class A	Compatibility Complies with FCC, Class A	Compatibility Complies with FCC, Class A
	High-voltage insulation test	Withstand voltage test 1000V AC, 1 minute	Withstand voltage test 1000V AC, 1 minute	Withstand voltage test 1000V AC, 1 minute	Withstand voltage test 1000V AC, 1 minute
	CE certification	Comply with EN55032 and EN55035 standards	Comply with EN55032 and EN55035 standards	Comply with EN55032 and EN55035 standards	Comply with EN55032 and EN55035 standards
	Protection class	IP30	IP30	IP30	IP30
Software	Software	SamSoar2022	SamSoar2022	SamSoar2022	SamSoar2022

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GT Series

GX Series

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

F Series Expansion Module

Product Models & Specifications

Mode		F-4TC	F-4PT	F-4AI	F-2AI1AO	F-2AO
Structure and environment	Size (mm)	39x46x33				
	weight (g)	38				
	Working temperature	-20°C~55°C (no freezing)				
	Working humidity	5~95% (non-condensing)				
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)				
Power supply	Power supply	Host power				
Digital input	Digital input	/				
	Input signal voltage	/				
Analog input	Analog input	4	4	4	2	/
	Input type	K-type/T-type thermocouples	Thermo resistor PT100	Voltage/current	Voltage/current	/
	Range	K-type: -50°C~800°C T-type: -260°C~400°C	-200°C~850°C	0~5V, 0~10V, 4~20mA	0~5V, 0~10V, 4~20mA	/
	Maximum input range	/	/	12V, 30mA	12V, 30mA	/
	Maximum resolution	0.1°C	0.1°C	0~5V: 1.25mV 0~10V: 2.5mV 4~20mA: 5μA	0~5V: 1.25mV 0~10V: 2.5mV 4~20mA: 5μA	/
	D/A conversion accuracy	16 bit	16 bit	16 bit	16 bit	/
	Overall measurement accuracy	±1°C	±0.5°C	±0.1°C	±0.1°C	/
Analog output	Analog output	/			1	2
	Output Type	/			Voltage/current	Voltage/current
	Output range	/			0~5V, 0~10V, 4~20mA	0~5V, 0~10V, 4~20mA
	Maximum resolution	/			0~5V: 1.25mV 0~10V: 2.5mV 4~20mA: 5μA	0~5V: 1.25mV 0~10V: 2.5mV 4~20mA: 5μA
	Load impedance	/			≥2K@10V, ≥2K@5V, ≤500Ω@20mA	≥2K@10V, ≥2K@5V, ≤500Ω@20mA
	D/A conversion accuracy	/			12 bit	12 bit
	Overall measurement accuracy	/			±0.5°C	±0.5°C
Other parameters	FCC compatibility	Compatibility Complies with FCC, Class A				
	High-voltage insulation test	Withstand voltage test 1000V AC, 1 minute				
	CE certification	Comply with EN55032 and EN55035 standards				
	Protection class	IP30				
Software	Software	SamSoar2022				

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M9 Series

PRO, MAX Series Bus PLC



Product Features

The PRO series bus-type PLC is an open motion control platform that integrates high-speed pulse output, high-speed input, and EtherCAT master functionality into one unit. The key features supported are as follows:

1. Built-in 32-point IO, while supporting local 8-axis high-speed pulse output and 16-way high-speed counting;
2. Supports EtherCAT nanosecond real-time network master protocol stack with a minimum setup system cycle of 500us;
3. Supports debugging and on-download interfaces including USB, U disk, Ethernet network port, RS485;
4. Supports PLC axis control parameterized configuration and online debugging interface, including limit, zero point and pointing functions;
5. Supports ladder diagram-based motion control MC instructions of IEC61131-3;
6. Supports mapping programming for large-scale hardware configuration, reducing the difficulties of field wiring and line changing;
7. Supports electronic gear, multi-axis interpolation, electronic cam and other functions.

The MAX series bus-type PLC offers enhanced motion control capabilities on top of the full functionality of the PRO series, featuring the following specific functions:

1. Secondary development supports open register, compiled PLC and G code programming methods, which can be flexibly selected;
2. Supports spatial straight lines, circular arcs, spirals, spline curves, NURBS curve interpolation;
3. Supports smooth transition of trajectory speed and continuous small line segment G64 interpolation;
4. Supports pitch error compensation, backlash compensation and tool radius compensation function;
5. Supports axis parameterized configuration management, task management and alarm management;
6. Supports Z pulse return to zero, secondary return to zero and other return to zero mode;
7. Supports variable speed during the movement, multiplier settings, start pause and other functions;
8. Supports G code 3D trajectory, ladder offline and online simulation functions;
9. Supports CAD, text, picture import to generate G code function.

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GX Series

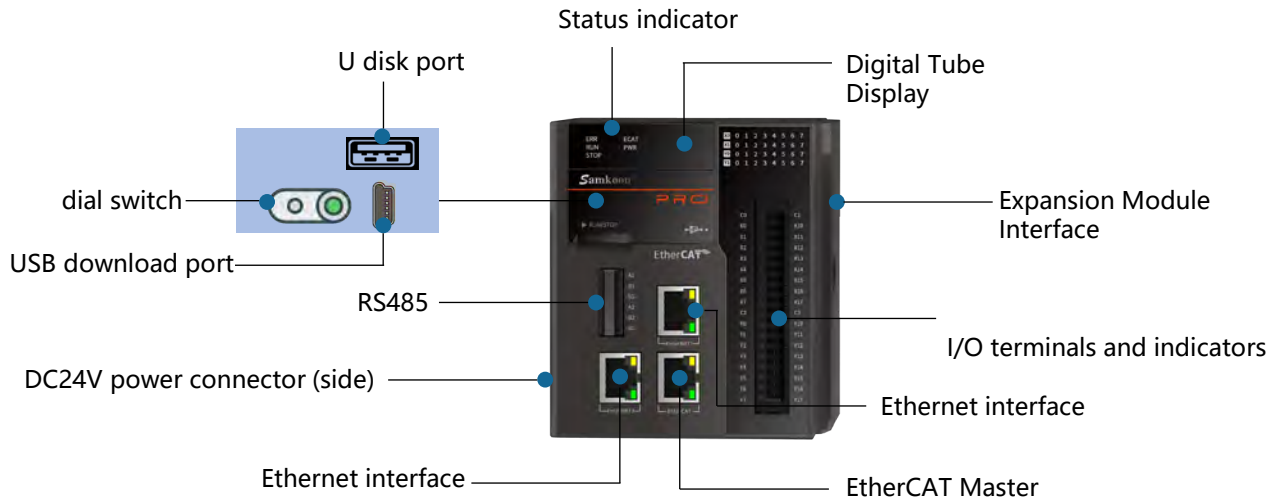
R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

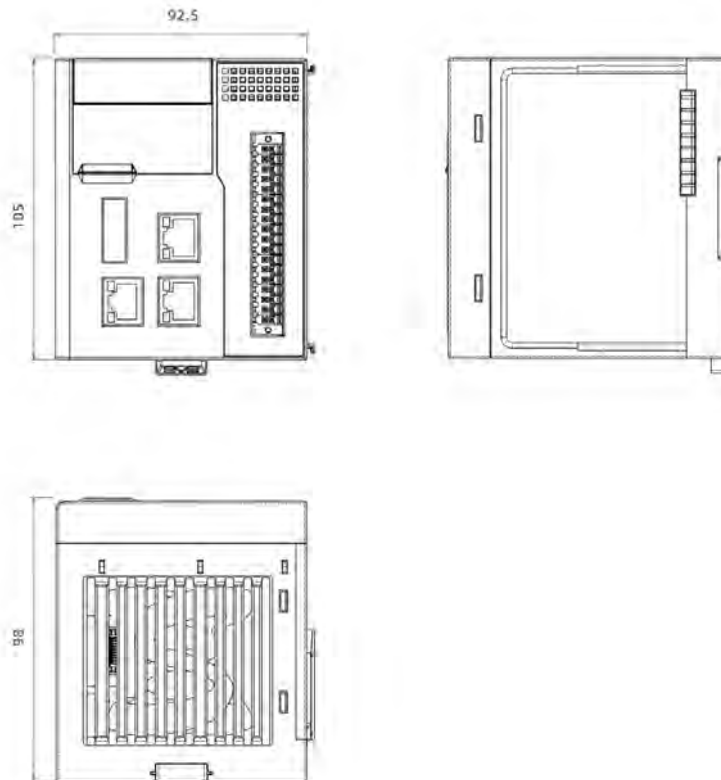
PRO, MAX Series Bus PLC

Port description



Product Size

92.5x 105x 98 (mm)



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SK300 Series VFD

PRO, MAX Series Bus PLC

Product Models & Specifications

Model		PRO-C 16X16T A	MAX-C 16X16T A
Core part	CPU	1GHz frequency + large-scale FPGA logic	
	Operating System	Linux Multitasking	
	RAM	512MBytes	
	FLASH	4GBytes eMMC	
	Power-down storage	Full register area power-down retention	
Interface part	EtherCAT	1x EtherCAT master, max. 32 axe	
	Ethernet	2 channels, Modbus TCP protocol, TCP/UDP Free port, network port download and monitoring	
	RS485	2 channels, 1200-115200bps, Modbus protocol/Free port protocol	
	USB interface	1x Type A, download program and firmware	
	USB download port	1x Type C, USB download and monitoring	
	IO	16 high-speed inputs and 16 high-speed outputs, supporting up to 8 local axes with 200KHz high-speed pulses	
PLC section	Ladder instructions	Support logic, operation, communication and other instructions	
	MC single-axis command	Support single-axis point, variable speed and variable position control	
	MC interpolation instruction	Support 8-channel 4-axis linear and circular interpolation, with a forward-looking cache segment of 2000 segments	
	Electroniccam command	Support chasing shears, flying shears, electronic cam table	
Motion section	Number of interpolation axes	/	Support 8-channel 9-axis G-code interpolation
	G code function	/	Advanced G-code languages supporting macro B
	Interpolation curve	/	Spatial straight lines, spatial circular arcs, spirals, spline curves, NURBS curve interpolation
	Continuous interpolation	/	Forward buffered 2000 segments with G64 continuous small line segment interpolation support
	File function	/	Support downloading G-code files on software and files on U-disk
	Variable speed function	/	Real-time speed change, multiplier setting, automatic pause, emergency stop, etc. during movement
	Debugging function	/	Support G-code 3D trajectory offline and online simulation function, support CAD, text, picture import to generate G-code function
Power supply	Power consumption	10W	
	Power supply	DC24V±15%	
Structure and environment	size	92.5mm X 105mm X 98mm	
	Working temperature	0°~50° (no freezing)	
	Working humidity	5~95% RH (non-condensing)	
	Shock resistance	10~25Hz (XYZ direction, 2G/30 minutes)	
	Tatic level	Class 3 ±6kV	

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SK300 Series VFD

PRO, MAX Series Bus PLC Expansion Modules

Product Models & Specifications

Model	PRO-E-16X16T	PRO-E-16X	PRO-E-16T	PRO-E-8X8T	PRO-E-START	PRO-E-END	PRO-E-4AI	PRO-E-4AO	PRO-E-4PT
Digital input	16	16	/	8	/	/	/	/	/
Digital output	16	/	16	8	/	/	/	/	/
Analog input	/	/	/	/	/	/	4	/	4
Analog output	/	/	/	/	/	/	/	4	/
Rated voltage	24V DC (±15%)	24V DC (±15%)	24V DC (±15%)	24V DC (±15%)	24V DC (±15%)	24V DC (±15%)	24V DC (±15%)	24V DC (±15%)	24V DC (±15%)
Power consumption	1W	1W	1W	1W	1W	1W	2W	2W	2W
Input	/	/	/	/	/	/	0~20mA; ±10V, ±5V	/	K-type /T-type thermocouple /PT100
Output	/	/	/	/	/	/	/	0~20mA; ±10V, ±5V	/
Current input impedance	/	/	/	/	/	/	250Ω	/	/
Output current load impedance	/	/	/	/	/	/	/	<500Ω	/
Voltage input impedance	/	/	/	/	/	/	>500kΩ	/	/
Output voltage load impedance	/	/	/	/	/	/	/	>5kΩ	/
Resolution / Accuracy	/	/	/	/	/	/	16 bit/±0.2%	12 bit/±0.2%	24 bit/±0.2%
Input "1" level range	8~30V DC	8~30V DC	/	13~30V DC	/	/	/	/	/
Input rates	10KHz	10KHz	/	200KHz	/	/	/	/	/
Output rates	10KHz	/	10KHz	200KHz	/	/	/	/	/
Output load current	0.6A per channel	/	0.6A per channel	0.6A per channel	/	/	/	/	/
Isolation withstand voltage	500V	500V	500V	500V	/	/	/	/	/
Product Size (mm)	105 x 98 x 29	105 x 98 x 29	105 x 98 x 29	105 x 98 x 29	105 x 98 x 29	105 x 98 x 29	105 x 98 x 29	105 x 98 x 29	105 x 98 x 29
Number of accessible expansion modules	/	/	/	/	5	/	/	/	/
Working temperature	0~55°C	0~55°C	0~55°C	0~55°C	0~55°C	0~55°C	0~55°C	0~55°C	0~55°C
Static level	Class 3±6kV	Class 3±6kV	Class 3±6kV	Class 3±6kV	Class 3±6kV	Class 3±6kV	Class 3±6kV	Class 3±6kV	Class 3±6kV

Product Index

HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

GX Series

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

HMI+PLC All-in-One

Samkoon HMI+PLC All-in-One is more than just a combination of HMI and PLC—it reflects decades of research and development expertise in both display and control technologies. From the initial design stage, careful consideration was given to compatibility, stability, and usability, achieving seamless integration of hardware and software. This all-in-one solution not only saves customers on cost and installation space but also delivers a more stable, user-friendly experience.

Naming Rules

GT - 070 - 26 MR - 1TC1AI - G

①

②

③

④

⑤

⑥

① GT: GT Series All-in-one(HMI+PLC)
GX: GX Series All-in-one (HMI+PLC)

② 043: 4.3 "
070: 7"

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

③ 16: Input/output in total 16
23: Input/output in total 23
26: Input/output in total 26
30: Input/output in total 30
32: Input/output in total 32
48: Input/output in total 48

⑥ G: 4G or WIFI function

④ MR: Relay output
MT: Transistor output
M/MTR: Including relay and transistors outputs



GT Series HMI+PLC All-in-One

Featuring a sleek new appearance and enhanced performance, the system achieves seamless integration of HMI and PLC for a more efficient and user-friendly experience.

4.3 inch



7 inch



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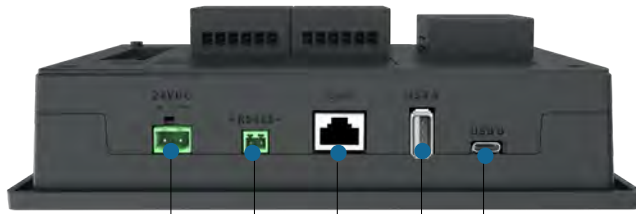
GT Series HMI+PLC All-in-One



8 channels
PT100



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



DC 24V

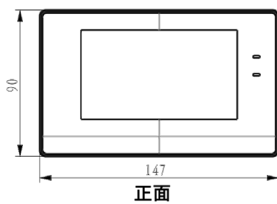
RS485

Ethernet Interface

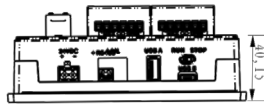
USB
download
port

USB interface

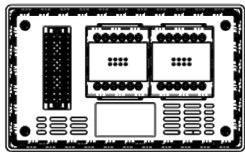
Product Size



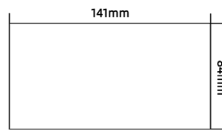
正面



侧面

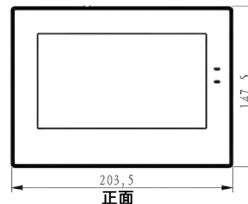


反面



安装开孔尺寸

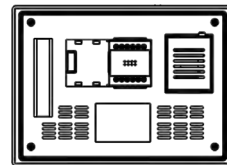
4.3 inch



正面



侧面



反面



安装开孔尺寸

7 inch

Product Models & Specifications

Model		GT-043-16MT/MR/MTR	GT-070-30MT-G	GT-070-32MT-8PT-G	GT-070-30MT-8TC-G	GT-070-30MR-G
Structure and environment	Size(mm)	147x90x40	204x148x45	204x148x45	204x148x45	204x148x45
	Cutout size (mm)	141x84	192x138	192x138	192x138	192x138
	Display size (mm)	4.3"(16:9)	7"(16:9)	7"(16:9)	7"(16:9)	7"(16:9)
	Weight (g)	286	700	738	738	756
	Working temperature	-20°C~55°C (no freezing)				
	Working humidity	5~95% (non-condensing)				
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)				
Shell material	Engineering plastic ABS+PC					
Power supply	Power supply	DC24V±15%				
	Static level	±6KV				
Display	Resolution (PX)	480 x272	1024x600	1024x600	1024x600	1024x600
	Contrast	400:1				
	Brightness	450cd/m²				
	Touch panel	4-wire high precision touch panel				
	Display colors	16.77 million				
Hardware	Backlight	LED				
	ROM	128MB DDR				
	CPU	Cortex A7 1GHz dual core				
	RAM	128MB Flash				
Other parameters	FCC Compatibility	Complies with FCC, Class A				
	Withstand voltage test	1000V AC, 1 minute				
	CE Certification	Complies with EN55032 and EN55035 standards				
	Protection class	IP65 (front panel)				
I/O	Digital input	8	16	16	16	16
	High-speed counter	2 single-phase(X0, X2) 200KHz, 2 single-phase (X1, X3) 20KHz				
	AB phase counter	2AB phase count (X0X1, X2X3) 200KHz				
	Digital output	MT: 8 transistor outputs with 4 high speed 200KHz pulse outputs MR: 8 relay outputs MTR: 2 transistor & 6 relay outputs with 2 high speed 200KHz pulse outputs	14 transistor outputs with 4 high speed 200KHz pulse outputs	16 transistor outputs with 4 high speed 200KHz pulse outputs	14 transistor outputs with 4 high speed 200KHz pulse outputs	14 relay outputs
	Thermocouple/thermo resistor inputs	/	/	8 channels of PT100/NI120	8 channels of K-type/ T-type thermocouples	/
	Analog inputs	/	/	/	/	/
	Analog outputs	/	/	/	/	/
Expansion	IO expansion	Up to 16 channels				
	Temperature expansion	Supports 8 channels of thermocouple or PT100 input				
	Analog expansion	Supports 8 channels				
Interface	IoT expansion	No	Supports 4G or WIFI	Supports 4G or WIFI	Supports 4G or WIFI	Supports 4G or WIFI
	USB download port	1x Type C	1x Type C	1x Type C	1x Type C	1x Type C
	USB interface	1x Type A	1x Type A	1x Type A	1x Type A	1x Type A
	PLC COM port	1x RS485	1x RS485	No	1x RS485	No
	HMI COM port	1x RS485	1x RS485	1x RS485	1x RS485	1x RS485
Software	Ethernet port	No	1x RJ45	1x RJ45	1x RJ45	1x RJ45
	Configuration software	SKTOOL7.1				

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HMI

FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

GX Series

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Product Models & Specifications

Model		GT-070-26MR-1TC1A1-G	GT-070-23M-PTAIO
Structure and environment	Size(mm)	204x148x45	204x148x45
	Cutout size (mm)	192x138	192x138
	Display size (mm)	7"(16:9)	7"(16:9)
	Weight (g)	756	756
	Working temperature	-20°C~55°C (no freezing)	-20°C~55°C (no freezing)
	Working 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	DC24V±15%	DC24V±15%
	Static level	±6KV	±6KV
Display	Resolution (PX)	1024x600	1024x600
	Contrast	400:1	400:1
	Brightness	450cd/m ²	450cd/m ²
	Touch panel	4-wire high precision touch panel	4-wire high precision touch panel
	Display colors	16.77 million	16.77 million
	Backlight	LED	LED
Hardware	ROM	128MB DDR	128MB 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)
I/O	Digital input	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
	AB phase counter	2AB phase count (X0X1, X2X3) 200KHz	2AB phase count (X0X1, X2X3) 200KHz
	Digital output	10 relay outputs	10 transistor & 3 relay outputs
	Thermocouple/ thermo resistor inputs	1 channels of K-type/ T-type thermocouples	4 channels of PT100/NI120
	Analog inputs	1 analog input (voltage/current)	4 analog input (voltage/current)
	Analog outputs	/	1 analog outputs (voltage/current)
Expansion	IO expansion	Up to 16 channels	Up to 16 channels
	Temperature expansion	Supports 8 channels of thermocouple or PT100 input	Supports 8 channels of thermocouple or PT100 input
	Analog expansion	Supports 8 channels	Supports 8 channels
	IoT expansion	Supports 4G or WIFI	No
Interface	USB download port	1x Type C	1x Type C
	USB interface	1x Type A	1x Type A
	PLC COM port	No	1x RS485
	HMI COM port	1x RS485	1x RS485
	Ethernet port	1x RJ45	1x RJ45
Software	Configuration software	SKTOOL7.1	SKTOOL7.1

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PRO, MAX Series Bus PLC

GT Series

GX Series

R8 Series Servo Drive

HK Series Servo Motor

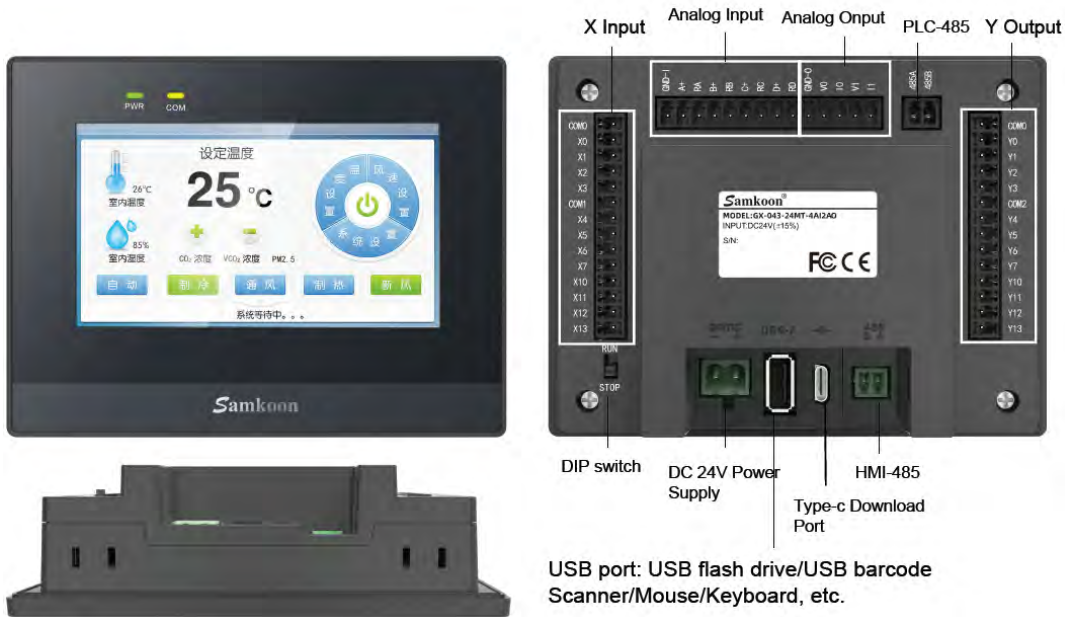
SK300 Series VFD

Samkoon

GX Series HMI+PLC All-in-One

It features integrated display and control programming with terminals distributed on all sides for easy wiring. The system supports a variety of plug-in modules and offers 4 channels of 200 kHz pulse output, 4 channels of high-speed input (including 2 channels of AB phase), as well as 4 channels of analog input and 2 channels of analog output. In terms of communication, it supports network interfaces, RS485 communication (one for HMI and one for PLC), and Ethernet communication, ensuring flexible and reliable connectivity.

4.3 inch



Product Index

HMI

FAs Series PLC

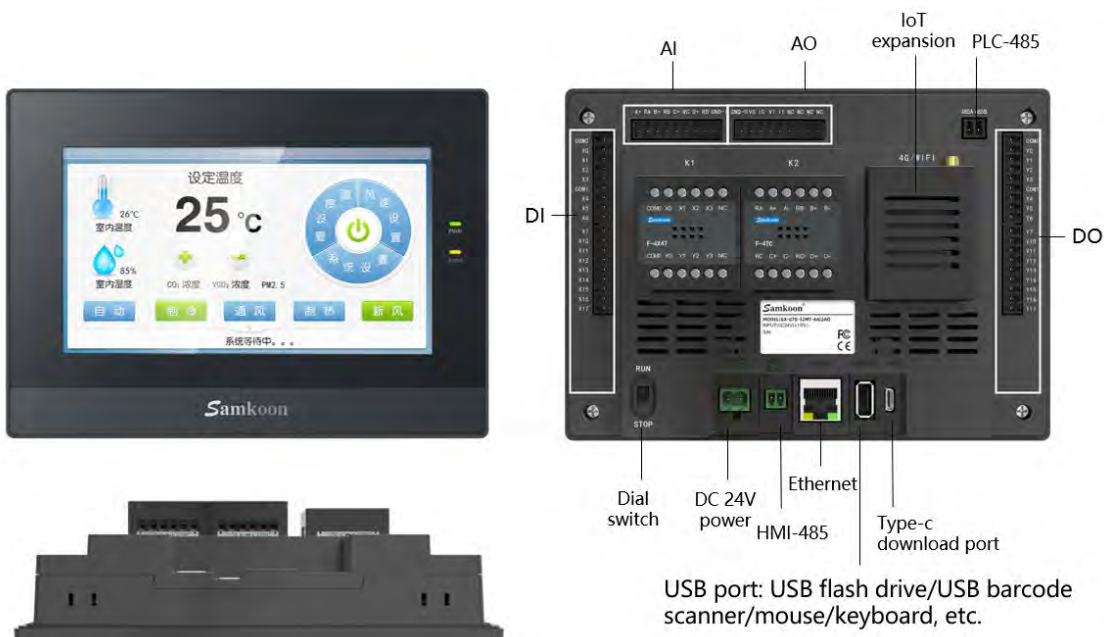
FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

GX Series

7 inch



R8 Series Servo Drive

HK Series Servo Motor

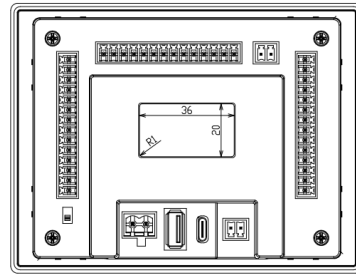
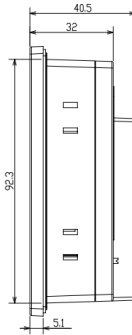
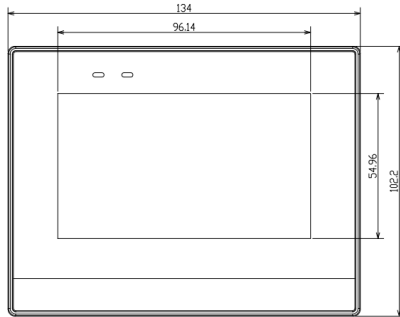
SK300 Series VFD

GX Series HMI+PLC All-in-One

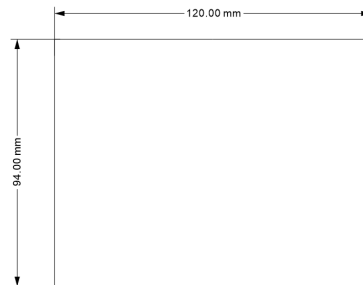
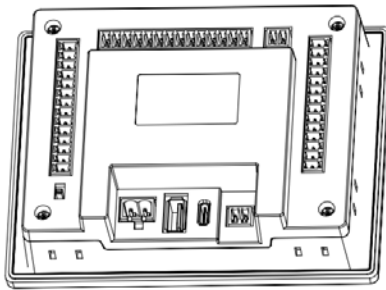
Product Size

4.3 inch

(Dimension: mm)

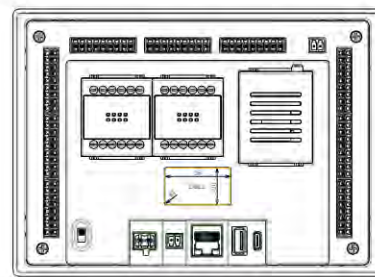
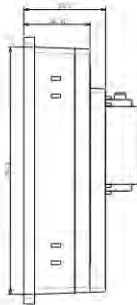
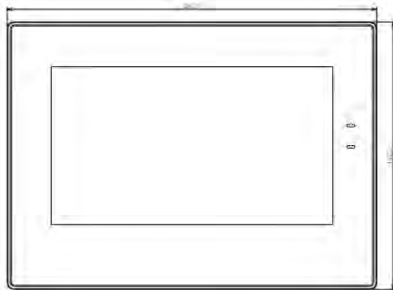


(Cut-out size: mm)

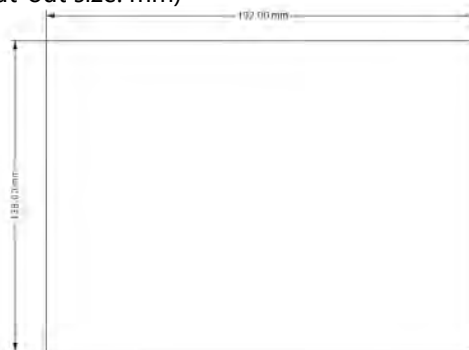
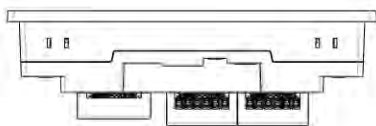


7 inch

(Dimension: mm)



(Cut-out size: mm)



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HMI

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FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

GX Series

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Product Models & Specifications

Model		GX-043-28MT	GX-043-24MT-4AI2AO	GX-043B-32MT	GX-070-32MT-G	GX-070-32MT-4AI2AO-G	GX-070-48MT-G
Structure and environment	Size(mm)	134x102.2x40.5	134x102.2x40.5	180x108x32	204x148x45	204x148x45	204x148x45
	Cutout size (mm)	120x94	120x94	155x94	192x138	192x138	192x138
	Display size (mm)	4.3"(16:9)	4.3"(16:9)	4.3"(16:9)	7"(16:9)	7"(16:9)	7"(16:9)
	Weight (g)	280	300	600	820	850	820
	Working temperature	-20°C~55°C (no freezing)					
	Working humidity	5~95% (non-condensing)					
	Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)					
	Shell material	Engineering plastic ABS+PC					
Power supply	Power supply	DC24V±15%					
	Static level	±6KV					
Display	Resolution (PX)	480 x272	480 x272	480 x272	1024x600	1024x600	1024x600
	Contrast	400:1					
	Brightness	450cd/m²					
	Touch panel	4-wire high precision touch panel					
	Display colors	16.77 million					
	Backlight	LED					
Hardware	ROM	128MB DDR					
	CPU	Cortex A7 1GHz dual core					
	RAM	128MB Flash					
Other parameters	FCC Compatibility	Complies with FCC, Class A					
	Withstand voltage test	1000V AC, 1 minute					
	CE Certification	Complies with EN55032 and EN55035 standards					
	Protection class	IP65 (front panel)	IP65 (front panel)	IP65 (front panel)	IP65 (front panel)	IP65 (front panel)	IP65 (front panel)
I/O	Digital input	15	12	16	16	16	24
	High-speed counter	1 single-phase X0 200KHz, 1 single-phase X1 20KHz	2 single-phase(X0, X2) 200KHz, 2 single-phase (X1, X3) 20KHz				
	AB phase counter	1AB phase count (X0X1) 200KHz	2AB phase count (X0X1, X2X3) 200KHz				
	Digital output	13 transistor outputs with 2 high speed 200KHZ (Y0-Y1)	12 transistor outputs with 4 high speed 200KHZ (Y0-Y3)	16 transistor outputs with 4 high speed 200KHZ (Y0-Y3)	16 transistor outputs with 4 high speed 200KHz pulse outputs	16 transistor outputs with 4 high speed 200KHz pulse outputs	24 transistor outputs with 4 high speed 200KHz pulse outputs
	Thermocouple/thermo resistor inputs	/	/	/	/	/	/
	Analog inputs	/	4 analog input (voltage/current)	/	/	4 analog input (voltage/current)	/
	Analog outputs	/	2 analog outputs (voltage/current)	/	/	2 analog outputs (voltage/current)	/
Expansion	IO expansion	Up to 8 channels	/	Up to 16 channels	Up to 16 channels	Up to 16 channels	Up to 16 channels
	Temperature expansion	Supports 4 channels of thermocouple or PT100 input	/	Supports 8 channels of thermocouple or PT100 input	Supports 8 channels of thermocouple or PT100 input	Supports 8 channels of thermocouple or PT100 input	Supports 8 channels of thermocouple or PT100 input
	Analog expansion	Supports 4 channels	/	Supports 8 channels	Supports 8 channels	Supports 8 channels	Supports 8 channels
	IoT expansion	No	No	No	Supports 4G or WIFI	Supports 4G or WIFI	Supports 4G or WIFI
Interface	USB download port	1x Type C	1x Type C	1x Type C	1x Type C	1x Type C	1x Type C
	USB interface	1x Type A	1x Type A	1x Type A	1x Type A	1x Type A	1x Type A
	PLC COM port	1x RS485	1x RS485	1x RS485	1x RS485	1x RS485	1x RS485
	HMI COM port	1x RS232	1x RS485	1x RS485	1x RS485	1x RS485	1x RS485
	Ethernet port	No	No	No	1x RJ45	1x RJ45	1x RJ45
Software	Configuration software	SKTOOL7.1					

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GT Series

GX Series

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Servo Drive

R8 Series Servo Drive | HK Series Servo Motor

The R8 Series Servo Drive is a next-generation product developed by Samkoon Technology, leveraging years of experience in the industrial automation industry. It features full independent intellectual property rights and has been comprehensively enhanced in stability, reliability, usability, and responsiveness, delivering superior performance for a wide range of applications.

Naming Rules

R8 - **22** **08** **P** -

① ② ③ ④ ⑤

① Product Line

R8: R8 Series Servo Drive

② Rated voltage

22: Single/three-phase 220V
38: Three-phase 380VC

③ Rated power

02: 200w
04: 400w
08: 800w
10: 1.0kw
15: 1.5kw
22: 2.2kw
26: 2.6kw
30: 3.0kw

④ Communication type

P: Pulse type
C: CANopen
Z: EtherCAT bus type

⑤ Non-standard code

N: Standard products
S: Condensed version
B: Dynamic braking
other: Nonstandard product



R8 Series Servo Drive

Product Features

Fast response

- Current sampling up to 16kHz
- Pulse-type velocity loop bandwidth up to 1.3kHz
- Bus-type speed loop bandwidth up to 1.6kHz
- High response control based on torque feedforward can reduce the position adjustment time to 5-6ms

Note: The speed loop bandwidth is the frequency of the fastest speed command to which the servo system can respond.

High precision

- Supports 17 bit single-turn/multi-turn absolute encoding
- Supports 23 bit single-turn/multi-turn absolute encoding
- Multiple turns can memorize the absolute position of 65, 535 turns

Excellent EtherCAT bus performance

- 2x100Mbps (full duplex)
- Simple wiring
- Refreshing time: 100 axes \times 1us/axis transmission delay = 0.1ms:
- Supports 1ms synchronization period, less than 1ms can support 250 μ s integer multiples of the same period

Easy to debug

- Self-adjustment of rigidity table parameters + feedforward to improve response
- Offline/online inertia identification optimization response curve
- Mechanical property recognition + notch filter to suppress vibration

Internal multi-segment position

- Provides 16 sections of internal position, which can plan
- multi-point continuous motion
- Change point parameters during operation
- Supports relative position and absolute position
- DI enable control
- With the origin return, some basic positioning actions can be realized

Upper software

- Parameter modification, importing and exporting
- Real-time capture of waveform data
- Alarm information is clear at a glance
- Inertia identification is simple and easy to use
- Accurate and effective mechanical analysis

[Product Index](#)[HMI](#)[FAs Series PLC](#)[FAT Series PLC](#)[PRO, MAX Series Bus PLC](#)[GT Series](#)[GX Series](#)[R8 Series Servo Drive](#)[HK Series Servo Motor](#)[SK300 Series VFD](#)

Product Models & Specifications

Model	Input voltage	Current	Power	Control method	Encoder support	Built-in braking resistor	Dynamic braking	Size (mm)	Weight (kg)
R8-2204P-N	Single-phase 220VAC	2.8A	400W	Pulse analog quantity/RS485	Tamagawa 17/23bit	NO	NO	50x160x173	1
R8-2204P-B	Single-phase 220VAC	2.8A	400W	Pulse analog quantity/RS485	Tamagawa 17/23bit	NO	YES	50x160x173	1
R8-2204Z-N	Single-phase 220VAC	2.8A	400W	EthterCAT bus	Tamagawa 17/23bit	NO	NO	50x160x173	1
R8-2204Z-B	Single-phase 220VAC	2.8A	400W	EthterCAT bus	Tamagawa 17/23bit	NO	YES	50x160x173	1
R8-2208P-N	Single-phase 220VAC	5.5A	750W	Pulse analog quantity/RS485	Tamagawa 17/23bit	YES	NO	50x160x173	1
R8-2208P-B	Single-phase 220VAC	5.5A	750W	Pulse analog quantity/RS485	Tamagawa 17/23bit	YES	YES	50x160x173	1
R8-2208Z-N	Single-phase 220VAC	5.5A	750W	EthterCAT bus	Tamagawa 17/23bit	YES	NO	50x160x173	1
R8-2208Z-B	Single-phase 220VAC	5.5A	750W	EthterCAT bus	Tamagawa 17/23bit	YES	YES	50x160x173	1
R8-2210P-S	Single-phase 220VAC	5.5A	1000W	Pulse analog quantity/RS485	Tamagawa 17/23bit	YES	NO	50x160x173	1.5
R8-2210Z-S	Single-phase 220VAC	5.5A	1000W	EthterCAT bus	Tamagawa 17/23bit	YES	NO	50x160x173	1.5
R8-2210P-N	Single-phase / three-phase 220VAC	6.4A	1000W	Pulse analog quantity/RS485	Tamagawa 17/23bit	YES	NO	57x199x182	1.5
R8-2210Z-N	Single-phase / three-phase 220VAC	6.4A	1000W	EthterCAT bus	Tamagawa 17/23bit	YES	NO	57x199x182	1.5
R8-2215P-N	Single-phase / three-phase 220VAC	8.4A	1500W	Pulse analog quantity/RS485	Tamagawa 17/23bit	YES	NO	57x199x182	1.5
R8-2215Z-N	Single-phase /three-phase 220VAC	8.4A	1500W	EthterCAT bus	Tamagawa 17/23bit	YES	NO	57x199x182	1.5
R8-2226P-N	Single-phase / three-phase 220VAC	12.0A	2600W	Pulse analog quantity/RS485	Tamagawa 17/23bit	YES	NO	90x160x181	2
R8-2226Z-N	Single-phase / three-phase 220VAC	12.0A	2600W	EthterCAT bus	Tamagawa 17/23bit	YES	NO	90x160x181	2
R8-3830P-N	Three-phase 380VAC	12.0A	3000W	Pulse analog quantity/RS485	Tamagawa 17/23bit	YES	NO	90x160x181	2
R8-3830Z-N	Three-phase 380VAC	12.0A	3000W	EthterCAT bus	Tamagawa 17/23bit	YES	NO	90x160x181	2

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FAs Series PLC

FAT Series PLC

PRO, MAX Series Bus PLC

GT Series

GX Series

R8 Series Servo Drive

HK Series Servo Motor

SK300 Series VFD

Product specifications

Voltage class		Mode R8-22/38***P/Z-N/B/S						
Power		4	8	10	15	26	30	
FetherCAT Specifications	Physical layer	100BASE-TX						
	Transmission rate	2X100Mbps						
	Communication protocol	CoE: CANopen over EtherCAT						
	Synchronous mode	DC Synchronous mode(SYNCO) FreeRUN						
	Synchronous jitter	<1US						
	Communication object	SDO (Mailbox data) PDO (Process data)						
	Control mode	CSP (Cycle Synchronized Position Mode) 1ms CSV (Cycle Synchronized Velocity Mode) 500us CST (Cycle Synchronized Torque Mode) 125us PP (Profile Position Mode) 1ms PV (Profile Velocity Mode) 500us PT (ProfileTorque Mode) 125us HM (Homing Mode) 1ms						
	other	Control mode	PWM sine wave vector control					
Regenerative braking		Built-in, external optional						
Feedback method		Absolute encoders						
Control mode		Position/speed/torque						
Control inputs		4 configurable input terminals (opto-isolated), functions can be configured as: servo enable, proportional control, forward drive disable, reverse drive disable, alarm clear, forward torque limit, reverse torque limit, position deviation clear, home return trigger, home return reference point, and 32 other input signals						
Control output		4 configurable output terminals (opto-isolated), functions can be configured for 20 signal outputs: speed consistency, motor rotation detection, servo ready, torque limit detection, brake interlock, encoder Z pulse, overtravel, servo enable motor excitation, home return completion, torque detection, etc.						
Encoder signal output		Signal type	A, B, Z differential output, Z signal open collector output					
		Crossover ratio	Parameter setting					
location		Input frequency	Differential input ≤ 500 kpps, single-ended input ≤ 200 kpps;					
		Command mode	Direction+pulse sequence, CW+CCW pulse sequence, two-phase A/B quadrature pulse; internal position command					
		Electronic gear ratio	Numerator: 1 ~ 1073741824 Denominator: 1 ~ 1073741824					
Speed		Mapping command input	-10~+10V Input					
		Command acceleration and deceleration	Parameter setting					
		Command source	Internal speed commands, analog commands					
Torque		Analog command input	-10~+10V Input					
		Speed limit	Parameter setting					
		Command source	Internal torch command, analog command					
Special features		Automatic tuning, home return, gain switching, mechanical resonance trap filter, alarm recording, JOG operation, load inertia recognition, etc.						
Monitoring function		Speed, current position, position deviation, motor torque, motor current, command pulse frequency, etc.						
Protection function		Over-voltage, under-voltage, over-current, overload, abnormal encoder, over-positioning, etc.						
Display function		Digital tube display						
Characteristics		Speed frequency response	≥ 1200 Hz					
	Velocity volatility	$\leq \pm 0.03\%$ (Load 0 ~ 100%) $\leq \pm 0.02\%$ (Power supply -15 ~ +10%)						
	Ratio of speed regulation	1:5000						

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Servo Motor Naming Rules

80 **HK** - **A** **024** **30** - **C** **S** **2** **A** **2**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Flange size (unit: mm)

40: 40x40
60: 60x60
80: 80x80
130: 130x130
180: 180x180

② Product Line

HK: HK Series motor

③ Encoder type

A: Absolute 17-bit encoding
B: Absolute 23-bit encoding

④ Rated torque

006:0.6N.m
013:1.3N.m
024:2.4N.m
190:19N.m

⑤ Rated speed

15: 1500rpm
20: 2000rpm
30: 3000rpm

⑥ Encoder category

C: Magnetic Editor
L: Light Editor

⑦ Encoder category

S: Single lap
M: Multi-lap

⑧ Input voltage

2: AC 220V
3: AC 380V
4: AC 48V

⑨ Shaft end structure

A: Flat key, key width 6mm
B: Flat key, key width 5mm
C: Flat key, key width 4mm
D: Flat key, key width 3mm

⑩ Optional parts

1: Excluding optional parts
2: With oil seal
3: With oil seal and electromagnetic brake with oil seal



SK300 Series VFD

High-performance general frequency converter

Samkoon prioritizes quality by utilizing robust hardware components, including Starpower IGBT modules for higher power models and durable capacitors tested for up to 32,000 hours. The book-style design features a dedicated air wind tunnel that cools key components while protecting the PCB from moisture and dust. Critical boards are treated with UV glue or three-proof paint and undergo rigorous individual and full-load testing, including 4 hours in a 40°C aging room. Additionally, the inverter supports both 380V and 220V three-phase power supplies, enhancing adaptability across different regions.



Product Models & Specifications

Voltage	Model	G-type		P-type	
		Motor(KW)	Output current(A)	Motor(KW)	Output current(A)
Three phase 380V	SK300-3T0.75GB/1.5PB	0.75	2.1	1.5	3.8
	SK300-3T1.5GB/2.2PB	1.5	3.8	2.2	5.1
	SK300-3T2.2GB/4.0PB	2.2	5.1	4	9
	SK300-3T4.0GB/5.5PB	4	9	5.5	13
	SK300-3T5.5GB/7.5PB	5.5	13	7.5	17
	SK300-3T7.5GB/11PB	7.5	17	11	25
	SK300-3T11GB/15PB	11	25	15	32
	SK300-3T15GB/18.5PB	15	32	18.5	37
	SK300-3T18.5GB/22PB	18.5	37	22	45
	SK300-3T22GB/30PB	22	45	30	60
Single phase 220V	SK300-2S0.4GB	0.4	2.1	/	/
	SK300-2S0.75GB	0.75	4	/	/
	SK300-2S1.5GB	1.5	7	/	/
	SK300-2S2.2GB	2.2	9.6	/	/

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Based in China, Serving the world

With nearly 20 years of expertise in industrial automation, Samkoon has established a strong global presence. Our products are exported to over 30 countries and regions, serving both domestic and international leading enterprises across diverse industries. We are committed to delivering high-quality products and services to customers of all scales.



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