

# Samkoon

Shenzhen Samkoon Technology Corporation Ltd.

Industrial automation solution providers

## HMI

Human-Machine Interface

Product Selection Guide



- SK Series
- EA Series



## About Samkoon Technology

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



### Human Machine Interface

- SK Series
- EA Series



### Control Unit

- FAs Series PLC
- FGR Series MINI PLC
- FGs Series Standard PLC
- FGm Series Motion Controller PLC
- PRO series Bus PLC



### Drive Element

- R8 series servo driver
- Customized type

### Step Drive

CHAIRMAN  
ADDRESS

企业简介

Quality

Professional

Efficiency

Performance

Shenzhen Samkoon Technology Co., Ltd. (referred to as "Samkoon Technology") was established in March 2007. It is a national high-tech enterprise, a dual-soft enterprise, and a "specialized, refined, and new" small and medium-sized enterprise in Shenzhen. The R&D center is located in the High-tech Park, Nanshan District, Shenzhen, and the production base is located in the Fashion Brand Industrial Park of the Shenzhen-Shantou Special Cooperation Zone.

Samkoon Technology has been deeply involved in the field of industrial automation for more than ten years, focusing on the research and development, production and sales of technology and products in the fields of industrial human-machine interface (HMI), programmable logic controller (PLC), servo drives, motion controllers and robots. All product software and hardware have 100% independent intellectual property rights. At present, Samkoon Technology has applied for a total of 82 national patents (including 57 invention patents), of which 36 have been authorized; applied for 32 software copyright registrations, all of which have been authorized.

显控科技



## 发展历程

### Company Development



**2007**

Samkoon founded and released 260000 true color LCD HMI series products

**调研示范基地**

**2009**

Honored as "Industrial, Control Research Demonstration Base" by National Sciences and Technology regulatory Commission



**2011**

Awarded as "National High-tech Enterprise"



**2012**

Succeeded in the development of Samkoon PLC, and released compiled PLC after three years, which increases 10 times of scanning speed periodically



**2017**

Cooperated with HUST and built research base for postgraduates



**2017**

Held new product launch in Shenzhen Xilihu Conference Center to announce the dominance of having four core technologies of industrial control



**2018**

Signed cooperative agreement with THU and formally became the practice base for PhD students in automation



**2019**

Built 20000m<sup>2</sup> production plant in Shenzhen-Shantou cooperation zone, speed up in industrialization and standardization



**2021**

Samkoon Technology was elected as the governing unit of Shenzhen Advanced Manufacturing Federation



**2022**

Samkoon Technology has been recognized by Shenzhen "specialized, refined and new" small and medium-sized enterprises

## Product layout

### The man-machine interface (HMI)

SK, EA Series

### Programmable logic controller (PLC)

FAs, FGR, FGs, FGm, PRO Series

### All-in-one (HMI+PLC)

GC Series



### Servo driver

R8 series servo driver  
HK series servo motor

### Remote module

Samkoon cloud platform

By analyzing the industry and customer



By deconstructing product function and debugging



Discover the demand

Project design

Function customization

Trial production



With experiences and need



Including small amount production for testing and debugging; and optimization based on feedbacks from factories and customers

400-606-9669

Service hotline

Engineers on-site debug

Focus on customer needs

More than 20 offices nationwide

All over the country's major provinces

A number of overseas institutions

Products are exported to more than 30 countries and regions

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Optional Accessories

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## SK Series Features

### 1 High-Performance Configuration

- based on Linux system, which is stable, efficient, safe and reliable
- Industrial high-performance 1GHz processor
- high capacity 128MB FLASH+128MB DDR3 high capacity support
- support miniprinters
- support wifi
- support HP printer and miniprinters

### 3 multiple interface embedding

- Support multiple communication modes: ethernet, wifi, 4G and canbus communications
- Support usb download

### 5 Abundant Choice Of Color

- 16,770,000 true color display

### 2 Diversified Functional Modules

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

### 4 Brand New Crypto System

- Configuration file encryption
- installation payment, HMI protection
- multiple security systems, safe and reliable

### 6 Strict brand control

- Qualified by FCC, ClassA and CE

## SK Series Naming Rules

<b>SK</b>	-	<b>H</b>	□□□	-	□	□
①		②	③		④	⑤
① SK: SK series HMI		② H: high-performance T: hand-held	③ 035: display size3.5" 043: display size4.3" 050: display size5" 057: display size5.7" 070: display size 7" 102: display size10.2" 121: display size12.1" 150: display size15" 156: display size15.6"		④ A/B/F/H/C/G/M/X/Q: Different hole size 070: A/F/G Same hole size 070: B/H/M/Q Same hole size	⑤ E: without Ethernet port S: with Ethernet port G: with 4G module D: with Ethernet and can bus W: with Wifi module T: means with external 485 terminal F: means waterproof H: means high definition

SK series specification



Model	SK-070QS	SK-070QE (V3.0)	SK-070QT	SK-070QH(HD Version)	SK-070QF (waterproof version)
<b>Structure and environment</b>					
Size(mm)	203 × 145 × 35				204 × 148 × 36
Hole size (mm)	192 × 138				
Display size (mm)	7"(16:9)				
Weight (g)	700				
Working environment temperature	-20°C~55°C (no freezing)				
Working environment automatic humidity	5~95% (non-condensing)				
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)				
Shell material	engineering plastic ABS+PC				
<b>Power supply</b>					
Power consumption (W)	4				
Power supply voltage	(DC12~24V)±15%				
Static level	Class 4 ±8kV				
<b>Display</b>					
Resolution (PX)	800 × 480			1024x600	800 × 480/1024x600
Contrast	400:1				
Brightness	450cd/m <sup>2</sup>				
Touch panel	4-wire high precision touch panel				
Display colors	16.77 million				
Backlight Module	LED				
<b>Hardware</b>					
Storage	128MB DDR3				
CPU	Cortex A7 1GHz. Dual Core				
RAM	128MB FLASH				
<b>Interface</b>					
Network interface	Ethernet			NO	
Wifi	NO				
4G	NO				
USD download port	YES				
U disk port	YES				
Serial interface	COM1: RS232 COM2 : RS485/422				COM1 : RS485
Can interface	NO				
Wiring port	COM3(485)	NO		COM3(485)	NO
<b>Other parameters</b>					
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)				IP67 (Whole machine)
<b>software</b>					
Configuration Software	SKTOOL				



# SK series specification



Model	SK-043QE	SK-043QT	SK-102QT	SK-102QS
<b>Structure and environment</b>				
Size(mm)	139 × 86 × 31		273 × 211 × 44	
Hole size (mm)	132 × 80		259 × 201	
Display size (mm)	4.3"(16:9)		10.2"(16:9)	
Weight (g)	200		1050	
Working environment temperature	-20°C~55°C (no freezing)			
Working environment automatic humidity	5~95% (non-condensing)			
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)			
Shell material	engineering plastic ABS+PC			
<b>Power supply</b>				
Power consumption (W)	3		7	
Power supply voltage	(DC12~24V) ±15%			
Static level	Class 4 ±8kV			
<b>Display</b>				
Resolution (PX)	480 × 272		1024 × 600	
Contrast	400:1			
Brightness	400cd/m <sup>2</sup>		450cd/m <sup>2</sup>	
Touch panel	4-wire high precision touch panel			
Display colors	16.77 million			
Backlight Module	LED			
<b>Hardware</b>				
Storage	128MB DDR3			
CPU	Cortex A7 1GHz. Dual Core			
RAM	128MB FLASH			
<b>Interface</b>				
Network interface	NO		Ethernet	
Wifi	NO			
4G	NO			
USD download port	YES			
U disk port	YES			
Serial interface	COM1: RS232 COM2: RS485/422			
Can interface	NO			
Wiring port	NO	COM2(485)	COM3(485)	
<b>Other parameters</b>				
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)			
<b>software</b>				
Configuration Software	SKTOOL			



Model	SK-035FE	SK-035UE	SK-043UE	SK-043FE
<b>Structure and environment</b>				
Size(mm)	135 × 89 × 39	96 × 81 × 47	138 × 86 × 38	150 × 93 × 39
Hole size (mm)	123 × 80	92 × 77	132 × 80	141 × 84
Display size (mm)	3.5"(4:3)		4.3"(16:9)	
Weight (g)	200		270	
Working environment temperature	-20°C~55°C (no freezing)			
Working environment automatic humidity	5~95% (non-condensing)			
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)			
Shell material	engineering plastic ABS+PC			
<b>Power supply</b>				
Power consumption (W)	3			
Power supply voltage	(DC12~24V)±15%			
Static level	Class 3 ±6kV		Class 4 ±8kV	
<b>Display</b>				
Resolution (PX)	320 × 240		480 × 272	
Contrast	400:1			
Brightness	350cd/m <sup>2</sup>		400cd/m <sup>2</sup>	
Touch panel	4-wire high precision touch panel			
Display colors	16.77 million			
Backlight Module	LED			
<b>Hardware</b>				
Storage	128MB DDR3			
CPU	Cortex A8 600MHz		Cortex A7 1GHz. Dual Core	
RAM	128MB FLASH			
<b>Interface</b>				
Network interface	NO			
Wifi	NO			
4G	NO			
USD download port	YES			
U disk port	NO		YES	
Serial interface	COM: RS232/422/485			
<b>Other parameters</b>				
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)			
<b>software</b>				
Configuration Software	SKTOOL			

# SK series specification



Model	SK-043HE	SK-043HS	SK-057FE	SK-050HE
<b>Structure and environment</b>				
Size(mm)	173 × 95 × 39		177 × 140 × 40	165 × 103 × 39
Hole size (mm)	163 × 85		163 × 133	157 × 95
Display size (mm)	4.3"(16:9)		5.7"(4:3)	5"(16:9)
Weight (g)	270		510	330
Working environment temperature	-20°C~55°C (no freezing)			
Working environment automatic humidity	5~95% (non-condensing)			
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)			
Shell material	engineering plastic ABS+PC			
<b>Power supply</b>				
Power consumption (W)	3		5	4
Power supply voltage	(DC12~24V) ±15%			
Static level	Class 4 ±8kV		Class 3 ±6kV	
<b>Display</b>				
Resolution (PX)	480 × 272		640 × 480	800 × 480
Contrast	400:1			
Brightness	400cd/m <sup>2</sup>			
Touch panel	4-wire high precision touch panel			
Display colors	16.77 million			
Backlight Module	LED			
<b>Hardware</b>				
Storage	128MB DDR3			
CPU	Cortex A7 1GHz. Dual Core		Cortex A8 600MHz	
RAM	128MB FLASH			
<b>Interface</b>				
Network interface	NO	Ethernet	NO	
Wifi	NO			
4G	NO			
USD download port	YES			
U disk port	YES			
Serial interface	COM: RS232/422/485		COM1 COM2: RS232/422/485	COM: RS232/422/485
<b>Other parameters</b>				
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)			
<b>software</b>				
Configuration Software	SKTOOL			



Model	SK-050HS	SK-T070XS(Hold)	SK-070GE
<b>Structure and environment</b>			
Size(mm)	165 × 103 × 39	258 × 195.4 × 65.1	225 × 153 × 40
Hole size (mm)	157 × 95	NO	210 × 144
Display size (mm)	5"(16:9)	7"(16:9)	
Weight (g)	330	510	700
Working environment temperature	-20°C~55°C (no freezing)		
Working environment automatic humidity	5~95% (non-condensing)		
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)		
Shell material	engineering plastic ABS+PC		
<b>Power supply</b>			
Power consumption (W)	4	5	
Power supply voltage	(DC12~24V)±15%		
Static level	Class 3 ±6kV		Class 4 ±8kV
<b>Display</b>			
Resolution (PX)	800 × 480	1024 × 600	800 × 480
Contrast	400:1		
Brightness	400cd/m <sup>2</sup>	450cd/m <sup>2</sup>	
Touch panel	4-wire high precision touch panel		
Display colors	16.77 million		
Backlight Module	LED		
<b>Hardware</b>			
Storage	128MB DDR3	512MB DDR3	128M DDR3
CPU	Cortex A8 600MHz	Cortex A8 800MHz	Cortex A7 1GHz. Dual Core
RAM	128MB FLASH	256MB FLASH	128M FLASH
<b>Interface</b>			
Network interface	Ethernet		NO
Wifi	NO		
4G	NO		
USD download port	YES		
U disk port	YES		
Serial interface	COM: RS232/422/485	COM1:RS232/485/422	COM1 COM2 : RS232/422/485
<b>Other parameters</b>			
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)		
<b>software</b>			
Configuration Software	SKTOOL		

# SK series specification



Model	SK-070GS	SK-070GG	SK-070GW	SK-070ME
<b>Structure and environment</b>				
Size(mm)	225 × 153 × 40			205 × 145 × 40
Hole size (mm)	210 × 144			192 × 138
Display size (mm)	7"(16:9)			
Weight (g)	700			
Working environment temperature	-20°C~55°C (no freezing)			
Working environment automatic humidity	5~95% (non-condensing)			
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)			
Shell material	engineering plastic ABS+PC			
<b>Power supply</b>				
Power consumption (W)	5			
Power supply voltage	(DC12~24V)±15%			
Static level	Class 4 ±8kV			
<b>Display</b>				
Resolution (PX)	800 × 480			
Contrast	400:1			
Brightness	450cd/m <sup>2</sup>			
Touch panel	4-wire high precision touch panel			
Display colors	16.77 million			
Backlight Module	LED			
<b>Hardware</b>				
Storage	128MB DDR3			
CPU	Cortex A7 1GHz. Dual Core	Cortex A8 600MHz		
RAM	128MB FLASH	256MB FLASH	128MB FLASH	
<b>Interface</b>				
Network interface	Ethernet			NO
Wifi	NO	NO	YES	NO
4G	NO	YES	NO	NO
USD download port	YES			
U disk port	YES			
Serial interface	COM1 COM2: RS232/422/485			
Can interface	NO	YES		NO
<b>Other parameters</b>				
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)			
<b>software</b>				
Configuration Software	SKTOOL			



Model	SK-070MS	SK-070MG	SK-070MW	SK-102CE
<b>Structure and environment</b>				
Size(mm)	205 × 145 × 40			274 × 180 × 40
Hole size (mm)	192 × 138			255 × 167
Display size (mm)	7"(16:9)			10.2"(16:9)
Weight (g)	700			1000
Working environment temperature	-20°C~55°C (no freezing)			
Working environment automatic humidity	5~95% (non-condensing)			
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)			
Shell material	engineering plastic ABS+PC			
<b>Power supply</b>				
Power consumption (W)	5			7
Power supply voltage	(DC12~24V) ±15%			
Static level	Class 4 ±8kV			
<b>Display</b>				
Resolution (PX)	800 × 480			1024 × 600
Contrast	400:1			450:1
Brightness	450cd/m <sup>2</sup>			500cd/m <sup>2</sup>
Touch panel	4-wire high precision touch panel			
Display colors	16.77 million			
Backlight Module	LED			
<b>Hardware</b>				
Storage	128MB DDR3			
CPU	Cortex A8 600MHz			Cortex A7 1GHz. Dual Core
RAM	128MB FLASH	256MB FLASH		128MB FLASH
<b>Interface</b>				
Network interface	Ethernet			NO
Wifi	NO	NO	YES	NO
4G	NO	YES	NO	NO
USD download port	YES			
U disk port	YES			
Serial interface	COM1 COM2: RS232/422/485			
Can interface	NO	YES		NO
<b>Other parameters</b>				
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)			
<b>software</b>				
Configuration Software	SKTOOL			

# SK series specification



Model	SK-102CS	SK-102CG	SK-102CW	SK-102HE
<b>Structure and environment</b>				
Size(mm)	274 × 180 × 40			273 × 211 × 44
Hole size (mm)	255 × 167			259 × 201
Display size (mm)	10.2"(16:9)			
Weight (g)	1000			1050
Working environment temperature	-20°C~55°C (no freezing)			
Working environment automatic humidity	5~95% (non-condensing)			
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)			
Shell material	engineering plastic ABS+PC			
<b>Power supply</b>				
Power consumption (W)	7			
Power supply voltage	(DC12~24V) ±15%			
Static level	Class 4 ±8kV			
<b>Display</b>				
Resolution (PX)	1024 × 600			
Contrast	450:1			
Brightness	500cd/m <sup>2</sup>			
Touch panel	4-wire high precision touch panel			
Display colors	16.77 million			
Backlight Module	LED			
<b>Hardware</b>				
Storage	128MB DDR3			
CPU	Cortex A7 1GHz. Dual Core	Cortex A8 600MHz		
RAM	128MB FLASH	256MB FLASH	128MB FLASH	
<b>Interface</b>				
Network interface	Ethernet			NO
Wifi	NO	NO	YES	NO
4G	NO	YES	NO	NO
USD download port	YES			
U disk port	YES			
Serial interface	COM1 COM2: RS232/422/485			
Can interface	NO	YES		NO
<b>Other parameters</b>				
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)			
<b>software</b>				
Configuration Software	SKTOOL			



Model	SK-102HS	SK-102HG	SK-102HW	SK-H150AS
<b>Structure and environment</b>				
Size(mm)	275 × 211 × 44			365 × 302 × 63
Hole size (mm)	259 × 201			356 × 293
Display size (mm)	10.2"(16:9)			15"(4:3)
Weight (g)	1050			3000
Working environment temperature	-20°C~55°C (no freezing)			
Working environment automatic humidity	5~95% (non-condensing)			
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)			
Shell material	engineering plastic ABS+PC			
<b>Power supply</b>				
Power consumption (W)	7			10
Power supply voltage	(DC12~24V) ±15%			DC24V±15%
Static level	Class 4 ±8kV			
<b>Display</b>				
Resolution (PX)	1024 × 600			1024 × 768
Contrast	450:1			500:1
Brightness	500cd/m <sup>2</sup>			
Touch panel	4-wire high precision touch panel			
Display colors	16.77 million			
Backlight Module	LED			
<b>Hardware</b>				
Storage	128MB DDR3			2GB DDR3
CPU	Cortex A8 600MHz			4nuclear Cortex A17 1.5GHz.
RAM	128MB FLASH	256MB FLASH		8GB
<b>Interface</b>				
Network interface	Ethernet			
Wifi	NO	NO	YES	NO
4G	NO	YES	NO	NO
USD download port	YES			
U disk port	YES			
Serial interface	COM1 COM2: RS232/422/485			
Can interface	NO	YES		NO
<b>Other parameters</b>				
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)			
<b>software</b>				
Configuration Software	SKTOOL			



# SK series specification



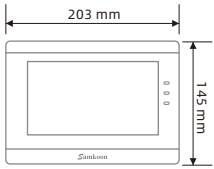
Model	SK-070ME (V3.0)	SK-070MS (V3.0)	SK-102HE (V3.0)	SK-102HS (V3.0)
<b>Structure and environment</b>				
Size(mm)	205 × 145 × 40		273 × 211 × 44	
Hole size (mm)	192 × 138		259 × 201	
Display size (mm)	7"(16:9)		10.2"(16:9)	
Weight (g)	700		1050	
Working environment temperature	-20°C~55°C (no freezing)			
Working environment automatic humidity	5~95% (non-condensing)			
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)			
Shell material	engineering plastic ABS+PC			
<b>Power supply</b>				
Power consumption (W)	5		7	
Power supply voltage	(DC12~24V) ±15%			
Static level	Class 4 ±8kV			
<b>Display</b>				
Resolution (PX)	800 × 480		1024 × 600	
Contrast	400:1			
Brightness	450cd/m <sup>2</sup>			
Touch panel	4-wire high precision touch panel			
Display colors	16.77 million			
Backlight Module	LED			
<b>Hardware</b>				
Storage	128MB DDR3			
CPU	Cortex A8 600MHz			
RAM	128MB FLASH			
<b>Interface</b>				
Network interface	NO	Ethernet	NO	Ethernet
Wifi	NO			
4G	NO			
USD download port	YES			
U disk port	YES			
Serial interface	COM1: RS232/422/485 COM2: RS485 (Optional)			
Can interface	NO			
<b>Other parameters</b>				
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)			
<b>software</b>				
Configuration Software	SKTOOL			



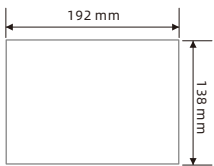
Model	SK-121FE	SK-121FS	SK-156QS
<b>Structure and environment</b>			
Size(mm)	340 × 256 × 54		395 × 257 × 31
Hole size (mm)	330 × 246		383 × 246
Display size (mm)	12.1"(4:3)		15.6"(16:9)
Weight (g)	2160		1050 2450
Working environment temperature	-20°C~55°C (no freezing)		
Working environment automatic humidity	5~95% (non-condensing)		
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)		
Shell material	engineering plastic ABS+PC		Aluminium alloy galvanized shet
<b>Power supply</b>			
Power consumption (W)	7		10
Power supply voltage	(DC12~24V) ±15%		
Static level	Class 4 ±8kV		
<b>Display</b>			
Resolution (PX)	1024 × 758		1920 × 1080
Contrast	450:1		700:1
Brightness	300cd/m <sup>2</sup>		
Touch panel	4-wire high precision touch panel		
Display colors	16.77 million		
Backlight Module	LED		
<b>Hardware</b>			
Storage	128MB DDR3		256MB DDR3
CPU	Cortex A8 600MHz		Cortex A7 1.2GHz
RAM	128MB FLASH		4G(EMMC)
<b>Interface</b>			
Network interface	NO	Ethernet	
Wifi	NO		
4G	NO		
USD download port	YES		NO
U disk port	YES		
Serial interface	COM1 COM2: RS232/422/485		COM1: RS232/422/485 COM2: RS485
Can interface	NO		
<b>Other parameters</b>			
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)		
<b>software</b>			
Configuration Software	SKTOOL		

## SK Series size

### •SK-070QS/QEV3/QT/QH

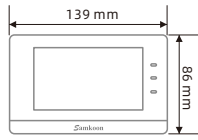


Front

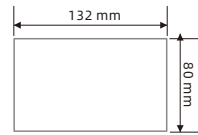


Hole size (mm)

### •SK-043QE/QT

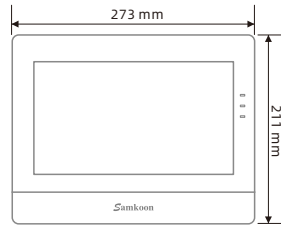


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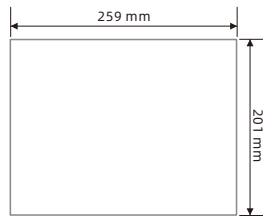


Hole size (mm)

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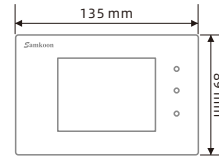


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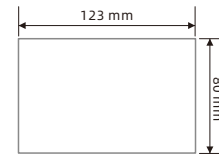


Hole size (mm)

### •SK-035FE

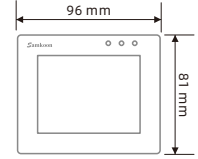


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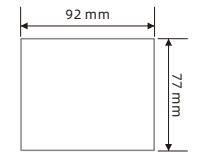


Hole size (mm)

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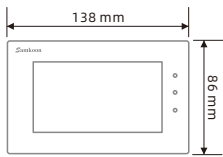


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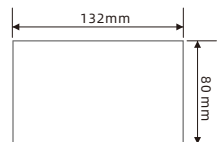


Hole size (mm)

### •SK-043UE

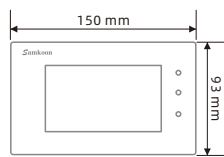


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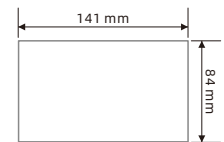


Hole size (mm)

### •SK-043FE

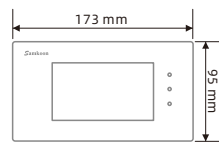


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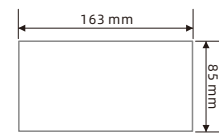


Hole size (mm)

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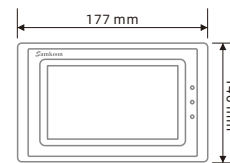


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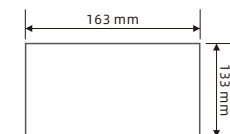


Hole size (mm)

### •SK-057FE

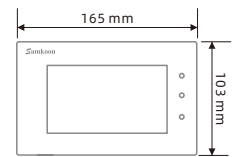


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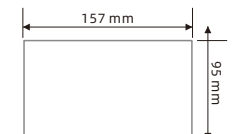


Hole size (mm)

### •SK-050HS/HE

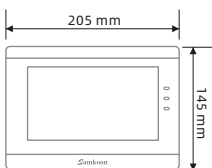


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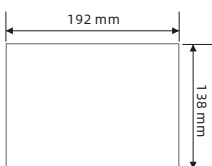


Hole size (mm)

### •SK-070QE

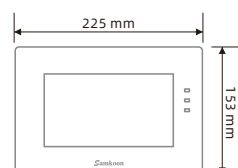


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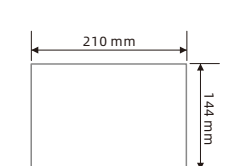


Hole size (mm)

### •SK-070GE/GS SK-070GG/GW

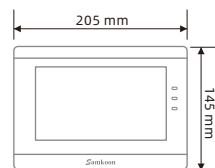


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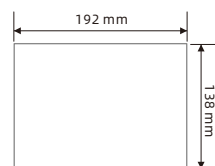


Hole size (mm)

### •SK-070ME/MS SK-070MG/MW

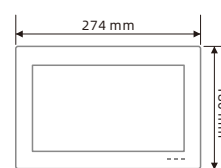


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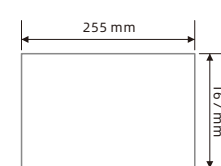


Hole size (mm)

### •SK-102CS/CE SK-102CG/CW

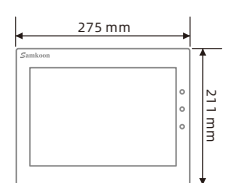


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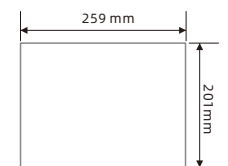


Hole size (mm)

### •SK-102HE/HS SK-102HG/HW

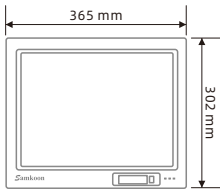


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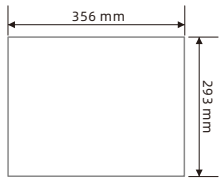


Hole size (mm)

**•SK-H150AS**

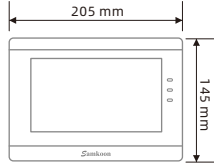


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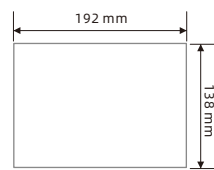


Hole size (mm)

**•SK-070ME V3/MS V3**

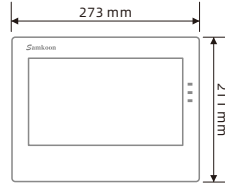


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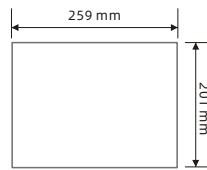


Hole size (mm)

**•SK-102HEV3/HS V3**

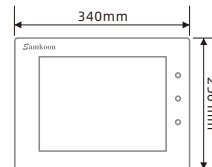


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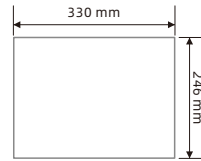


Hole size (mm)

**•SK-121FE/FS**

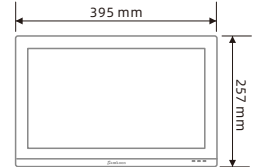


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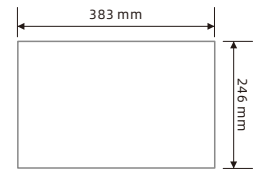


Hole size (mm)

**•SK-156QS**

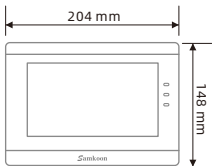


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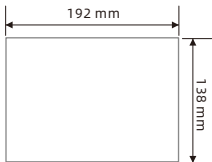


Hole size (mm)

**•SK-070QF**



Front



Hole size (mm)

## SK-070QF(waterproof)



## Features

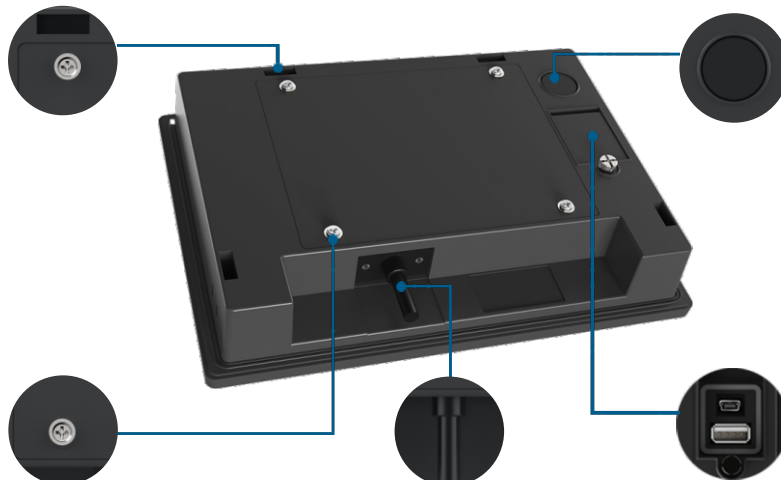
- Based on Linux system, which is stable, efficient, safe and reliable
- Industrial high-performance Cortex A7 processor
- Multifunctional and control diversification
- Multiple interface embedding : RS485usb download/U disk port
- Qualified by FCC, ClassA and CE

## Product parameters

- Size(mm): 204 × 148 × 36 (mm)
- Hole size (mm): 192 × 138 (mm)
- Display size (mm) : 7"(16:9)
- CPU : Cortex A7 1GHz. Dual Core
- Storage: 128MB FLASH+128MB DDR3
- Resolution (PX) : 800x480/1024 × 600
- Serial interface : COM1:RS485
- Interface : USB download port/USB disk Port
- Display colors : 16.77 million
- Shell material: ABS+PC: engineering plastic ABS+PC
- Protection class: IP67 (complete machine)
- Power supply voltage: 9~28V

**Blind hole snaps**  
(to prevent water vapor from immersing in the motherboard)

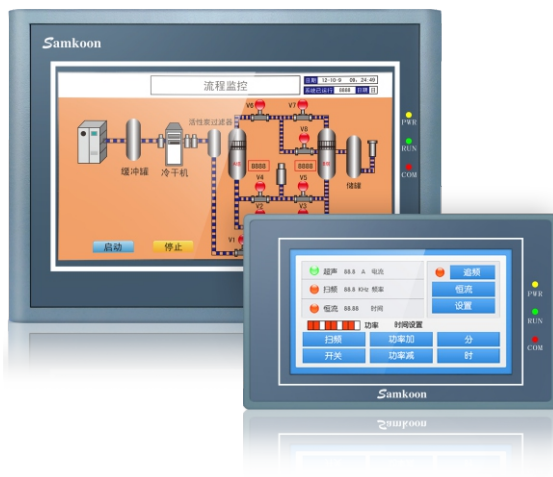
**Waterproof valve**  
(maintain external pressure balance, isolate water vapor)



**Waterproof screws**  
(corrosion resistance, oxidation resistance, no rust)

**Waterproof power communication connector**  
(to ensure electricity safety)

**Waterproof interface**  
(cover with sealing ring to prevent liquid from entering)



## 一 EA Series Features

### 1 High-performance configuration

- Real-time system, safe, reliable
- Industrial high-performance ARM9 processor, main frequency up to 300MHz
- High capacity 128MB FLASH+64MB DDR3

### 3 Brand new crypto system

- Multiple security system, safe and reliable

### 5 Abundant choice of color

- 260000 true color display

### 2 High-standard quality control

- Qualified by FCC, Class A, CE

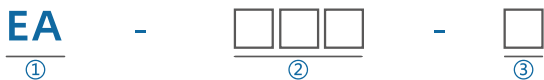
### 4 Dversified functional modules

- Pretty interface, easy to handle, full functions

### 6 Multiple interface embedding

- Built-in single COM integrated RS232/422/485 communication mode, support USB download

## 二 EA Series Naming Rules



① EA: EA Series HMI

③ A/B: Different hole size

② 035: display size 3.5"  
043: display size 4.3"

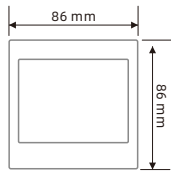
## EA Series Features



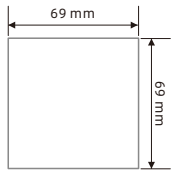
Model	EA-035A-T	EA-043A	EA-070B
<b>Structure and environment</b>			
Size(mm)	86 × 86 × 40.5	138 × 86 × 38	205 × 145 × 40
Hole size (mm)	69 × 69	132 × 80	192 × 138
Display size (mm)	3.5"(4:3)	4.3"(16:9)	7"(16:9)
Weight (g)	140	200	600
Working environment temperature	-20°C~55°C (no freezing)		
Working environment automatic humidity	5~95% (non-condensing)		
Shock resistance	10 ~ 25HZ (XYZ direction 2G/30 minutes)		
Shell material	engineering plastic ABS+PC		
<b>Power supply</b>			
Power consumption (W)	3		4.5
Power supply voltage	DC12-24V±15%		
Static level	Class 2 ±4kV		
<b>Display</b>			
Resolution (PX)	320 × 240	480 × 272	800 × 480
Contrast	400:1		450:1
Brightness	350cd/m <sup>2</sup>	400cd/m <sup>2</sup>	450cd/m <sup>2</sup>
Touch panel	4-wire high precision touch panel		
Display colors	26 million		
Backlight Module	LED		
<b>Hardware</b>			
Storage	128MB FLASH+64MB DDR2		
CPU	ARM9 300MHz		
<b>Interface</b>			
SDCard	NO		
USB download port	YES		
U disk port	NO	YES	
Serial interface	COM: RS485	COM: RS232/422/485	
<b>Other parameters</b>			
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)		
<b>software</b>			
Configuration Software	SATOOL		

EA Series size

•EA-035A-T

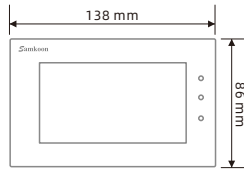


Front

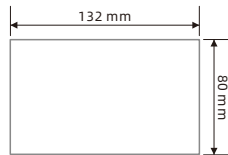


Hole size (mm)

•EA-043A

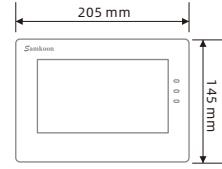


Front

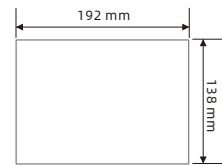


Hole size (mm)

•EA-070B



Front



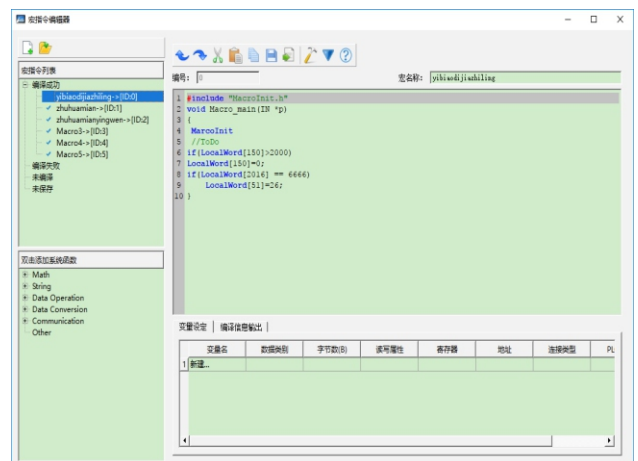
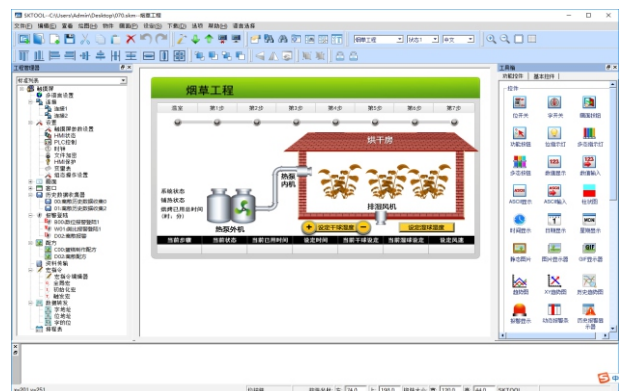
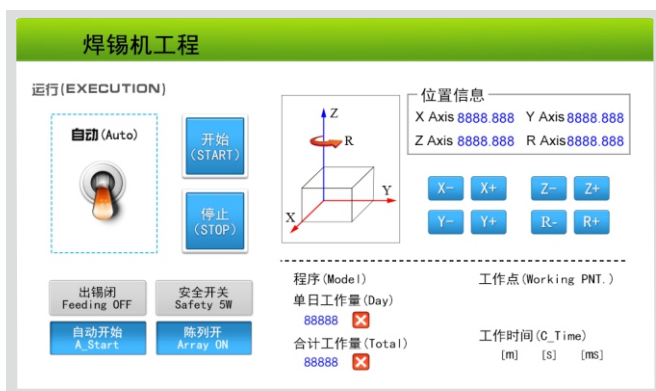
Hole size (mm)



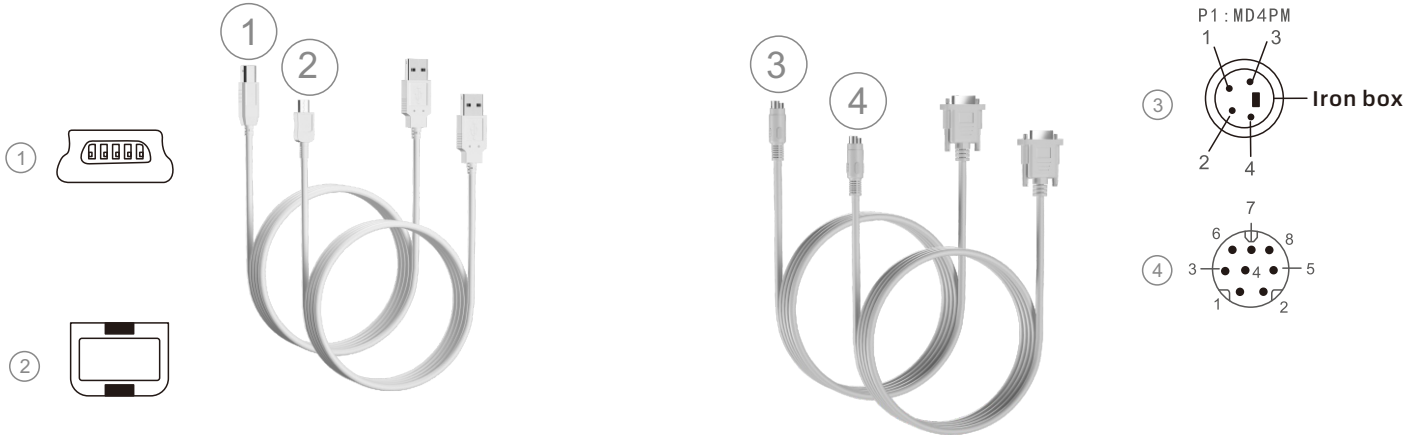
## Software features

- Graphical interface, easy to understand, powerful functions
- Support 50 language settings
- Support JPG, BMR PNG, GIF and other image formats
- Support multiple groups of discrete recipes, alarms, historical data collection and other functions
- Support C Language programming java programming
- Support offline/online simulation
- Support one-click modification of text/address
- Manage gadgets, support upload and download, firmware update and other operations
- Configuration software for free: SKTOOL, SATOOL

## Software Interface



Optional Accessories

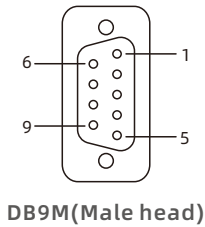


**USB Communication cables**

- ① SK-043QE, SK-043QT, SK-070QF, SK-070QE, SK-070QT, SK-070QH, SK-070QS Download line
- ② In addition to the above models, other SK series models and EA series download cables

**Communication cables**

- ③ FAs series PLC Communication Cable
- ④ FAs series PLC、FGs series PLC、FGm series PLC、Communication Cable



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

**Install the fixings**

1.The USB communication cable is used for uploading and downloading project files, connecting the PC and the manmachine interface.

1.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. Parameters are subject to change without notice, please call for consultation.



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