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# Human Machine Interface TS / TG / RT / OP

Excellent combination of expressiveness and ease of use

Industrial automation trusted partner



XINJE Wechat

XINJE

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# TS series high performance HMI

## New TS series HMI

- Linux system and efficient A8 processor are adopted
- Smoother man-machine experience



TS3 series standard HMI

TS5L series IOT HMI

### 1 High Performance Processor

ARM processor is adopted, with main frequency of 600MHz, built-in 128MB memory and expandable flash disk storage.

### 2 High Efficiency System

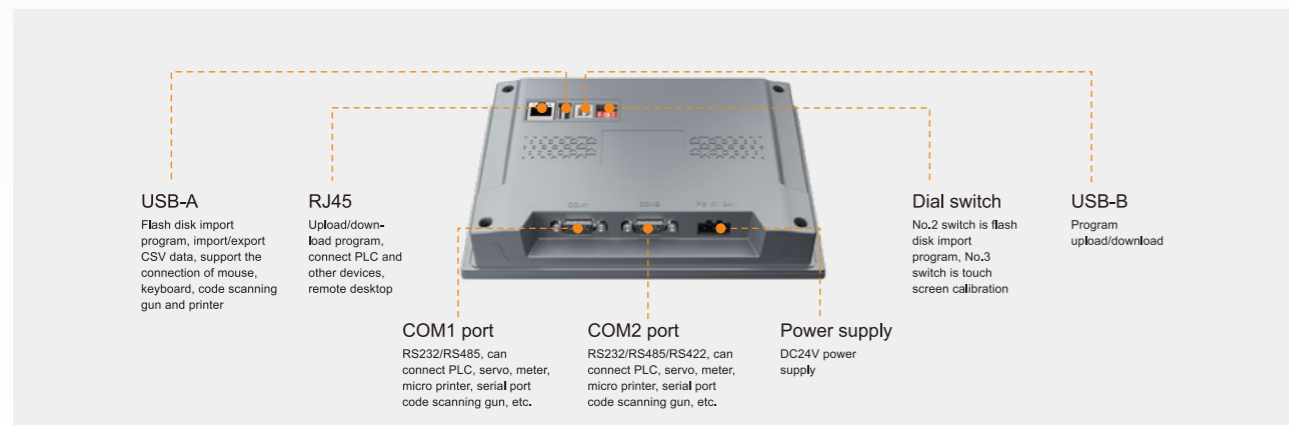
Based on the Linux system, the multi-task processing mechanism greatly improves the system response speed and makes the operation more efficient and fast.

### 3 Multidirectional Installation

It supports free installation in four directions, which can meet the needs of different occasions.



### 4 Rich Device Connectivity



## Standard HMI

### TS3 series 10.1" 7"

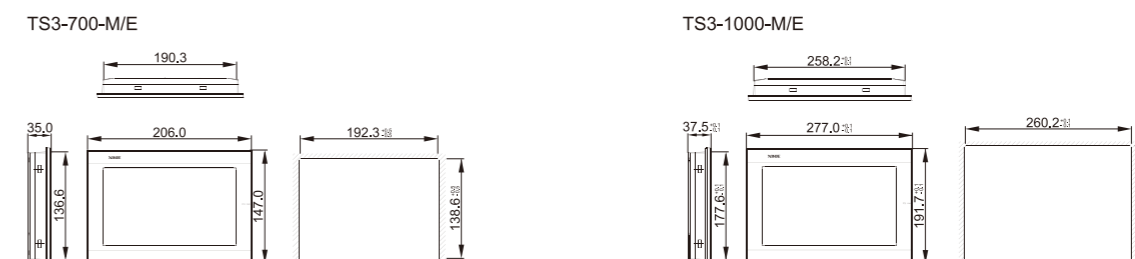
- Cortex-A8 processor is adopted, with main frequency of 600MHz and built-in 128MB memory
- Rich functions, suitable for a variety of occasions
- It has stronger tightness and better protection against dust, water vapor and scrap
- The product structure conforms to the lightweight design, which is light and slim
- The new touchWin Pro software is fully upgraded



### Product specification

Product model		TS3-700-M	TS3-700-E	TS3-1000-M	TS3-1000-E
Product features	Dimension	7"			10.1"
	Type	16.77 million colors			
	Resolution	800*480		1024*600	
	Brightness	200 cd/m <sup>2</sup>			
	Touch panel	Four-wire resistive touch panel			
	Service life	Above 50000 hours, ambient temperature 25°C, 24 hours operation			
Interface	Processor	Cortex-A8 600MHz			
	Memory	128MB			
	COM1 port	RS232/RS485			
	COM2 port	RS232/RS485/RS422			
Electrical features	Ethernet port	/	Standard RJ45	/	Standard RJ45
	USB-A port	Flash disk port, USB2.0 standard			
	USB-B port	USB download port, USB2.0 standard			
	Input voltage	DC24V (voltage range: DC22~DC26V)			
	Power	5W		8W	
Environment	Allowable instantaneous power failure	Below 10ms (actual power loss less than 1s)			
	Withstand voltage	AC1000V, 10mA, less than 1 minute (signal and ground)			
	Insulation impedance	Above DC500V, 10MΩ (signal and ground)			
	Operation temperature	0-50°C			
	Storage temperature	-20-60°C			
	Ambient humidity	10%RH~90%RH (no condensation)			
	Vibration resistance	10~25Hz (X, Y, Z direction each 30 minutes 2G)			
Anti-interference	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute				
Structure	Ambient air	No corrosive gas			
	Protection level	Front panel IP65			
	Cooling method	Natural air cooling			
	External dimension (mm)	206.0*147.0*35.0		277.0*191.7*37.5	
Opening size (mm)	192.3*138.6(±0.5)		260.2*179.7(±0.5)		

### Appearance dimension drawing (Unit: mm)



# IOT HMI

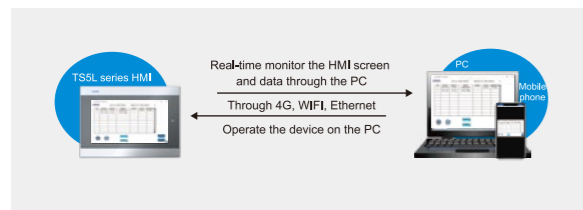
## TS5L series 10.1" 7"

- Remote functions: remote desktop (PC remote control HMI real-time screen), remote transparent transmission (remote upload/download PLC program), remote download (updating HMI program)
- It supports audio output and can output various audio through external speakers
- Cover mainstream information interaction protocols and support MQTT/TCP IP
- Standard network port, optional WIFI/4G module, networking through WIFI or 4G
- Edge calculation is conducive to data analysis and statistics



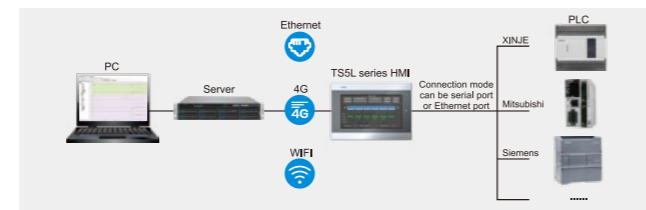
### 1 Remote Desktop

That is, VNC function, which supports PC or mobile synchronizing the screen and data of the HMI. It can monitor the HMI screen in real time and remotely control the touch screen without arriving at the site.



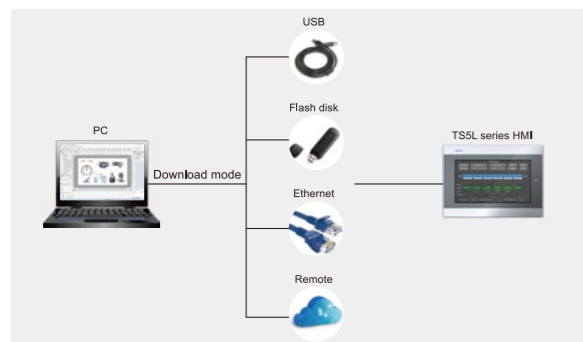
### 2 Remote Transparent Transmission

It supports remote uploading and downloading PLC program, which solves the trouble of no download cable and insufficient interface. The program can be downloaded to PLC through 4G or WIFI module.

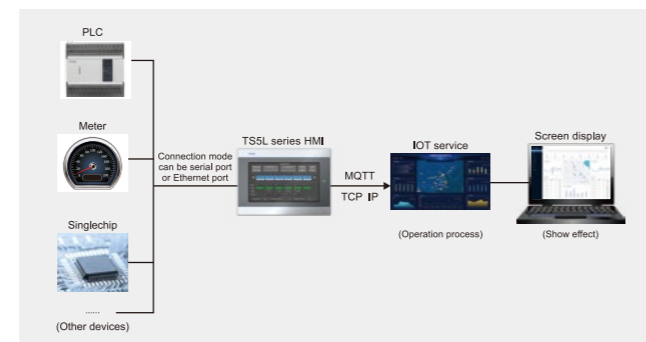


### 3 Download Programs in Multiple Ways

Support USB, flash disk, LAN or remote upload/download HMI program.



Covering mainstream information exchange protocols, support MQTT/TCP IP.



### 4 Optional WIFI/4G Communication Expansion Board

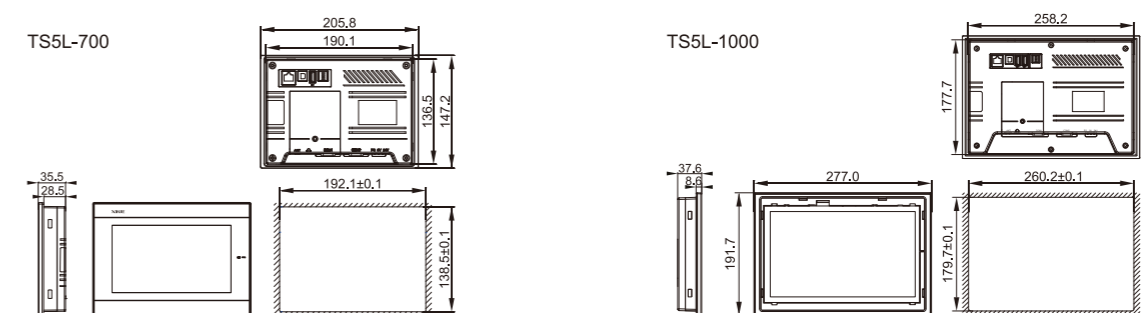
The HMI is equipped with a standard network port and supports WIFI/4G communication expansion board. It is integrated with TS5L and does not occupy excess space. 4G or WIFI communication expansion board can be switched freely according to the use occasion.



## Product specification

Product model		TS5L-700	TS5L-1000
Product features	Dimension	7"	10.1"
	Type	16.77 million colors	
	Resolution	800*480	1024*600
	Brightness	200 cd/m <sup>2</sup>	
	Touch panel	Four-wire resistive touch panel	
	Service life	Above 50000 hours, ambient temperature 25°C, 24 hours operation	
Interface	Processor	Cortex-A8 600MHz	
	Memory	128MB	
	COM1 port	RS232/RS485	
	COM2 port	RS232/RS485/RS422	
	Ethernet port	Standard RJ45, 10/100M	
	USB-A port	Flash disk port, USB2.0 standard	
	USB-B port	USB download port, USB2.0 standard	
Electrical features	4G	Optional	
	WIFI	Optional	
	Input voltage	DC24V (voltage range: DC22~DC26V)	
	Power	5W	8W
Environment	Allowable instantaneous power failure	Below 10ms (actual power loss less than 1s)	
	Withstand voltage	AC1000V, 10mA, less than 1 minute (signal and ground)	
	Insulation impedance	Above DC500V, 10MΩ (signal and ground)	
	Operation temperature	0-50°C	
	Storage temperature	-20-60°C	
	Ambient humidity	10%RH~90%RH (no condensation)	
	Vibration resistance	10~25Hz (X, Y, Z direction each 30 minutes 2G)	
	Anti-interference	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute	
	Ambient air	No corrosive gas	
	Protection level	Front panel IP65	
Structure	Cooling method	Natural air cooling	
	External dimension (mm)	205.8*147.2*35.5	277.0*191.7*37.6
	Opening size (mm)	192.1*138.5(±0.1)	260.2*179.7(±0.1)

## Appearance dimension drawing (Unit: mm)



# TouchWin Pro software NEW



Simple and intuitive software interface  
Fully considering the convenience and ease of use of user programming  
Committed to reducing programming time

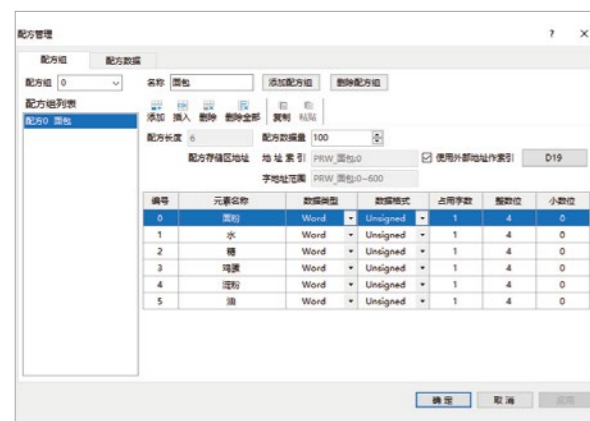
## 1 Built-in Model Selection Function

The software has built-in model selection function, which can quickly match the required product model according to your requirements.



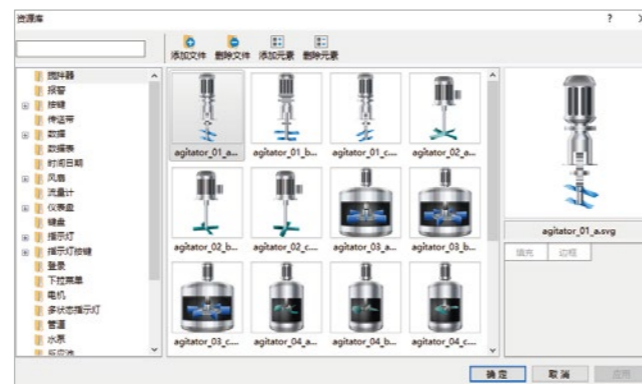
## 3 Powerful Recipe Management

The new recipe management is simple and easy to edit. It supports editing recipe data on the touch screen, including inserting, deleting, importing, exporting and other operations.



## 2 Rich Material Library

The newly designed material library has a variety of materials to choose from, and pictures can be found through color, shape and so on.



## 4 Detailed Report Management

The report management method supports the display of tables in forward order/ reverse order. You can query data or alarm records by date and keyword. It can be imported/exported to USB flash disk.



## 5 Traceable Operation Records

Record user login and operation contents, which can be exported to USB flash disk to help analyze process flow and troubleshooting.



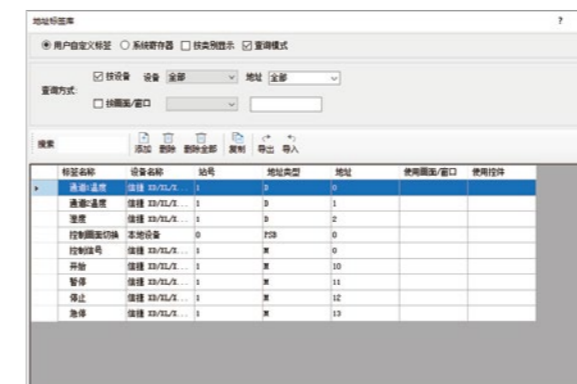
## 6 Schedule

With timer function, it can set the time and execute it regularly, making the on-site operation more efficient.



## 7 Address Label Library

The text, address and equipment in the program shall be uniformly managed to facilitate searching and checking.



## 8 Multiple Encryption Methods

A variety of encryption methods, including delay, interlock, user level and installment payment.



## 9 Multilingual Management

It supports up to 8 languages and is more convenient to use through multi-language label library management.



## 10 Support C Language Programming

Support C language function block, which are simple, fast and easy to learn, and support online debugging.

# TG general purpose HMI overview

3.7-15.6 inches full coverage, 13 branch products to meet a variety of interaction needs of your industrial site



## Suitable for many occasions

- TG general model
- TG(G) gray ultrathin model
- TG(S) black ultrathin model



## Suitable for harsh environment

- TG(P) Site environment with heavy oil pollution
- TGM(D) Site environment with severe temperature requirements



## Suitable for special occasions

- TGM(B) Vehicle, medical, testing
- CCSG Special for marine ships
- TGM(L) Outdoor occasions



## Suitable for network demand occasions

- TGM Ethernet communication
- TG-NT X-NET bus communication



## Suitable for basic occasions

- TG(S/G)-XT Cost effective
- OP key type operate panel



## Suitable for handheld operation

- MTG handheld wireless operation, built-in mobile power supply
- RT can be operated with one hand and two hands, which is convenient for field test equipment



## 1 High Hardware Configuration for Higher Performance

<b>CPU</b> ARM9 core Main frequency 400MHz	<b>Memory</b> 128MB/64MB	<b>Storage</b> 128MB	<b>Color</b> 16.77 million	<b>Capacity</b> 4 million words Power off storage area
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## 2 Download, Start and Run Trinity Ultra-high Speed Response

<b>Download</b> USB high-speed data transmission can greatly reduce the program download time and facilitate debugging	<b>Start</b> Greatly improve the startup speed and reduce the waiting time.	<b>Run</b> Smoother screen switching and animation effect
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## 3 Flexible Installation and Free Choice

Vertical installation or horizontal installation can be freely selected according to the actual needs of the site.

## Excellent performance

## Rich interface and powerful communication capability



## 1 Flexible Connection and Support Communication of Multiple Devices

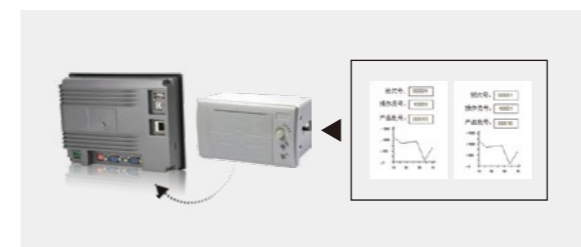
Flexible connectivity, direct communication with multiple devices

- It can be directly connected with PLC of various mainstream brands such as Mitsubishi, Siemens, Omron and Schneider, and communicate with various frequency converters and controllers such as Mitsubishi, Delta and Inovance.
- It supports communication with standard Modbus protocol controllers, and can connect multiple controllers supporting Modbus protocol at the same communication port, such as PLC, frequency converter, servo driver, instrument, etc.
- Support free protocol communication, and realize free communication of various instruments by flexible programming in C language.



## Support micro printer

- The download port can directly drive the micro printer, panel printer and thermal printer with RS232 interface, so as to realize the real-time printing of engineering data and acquisition curve.



## 2 Rich Download Methods

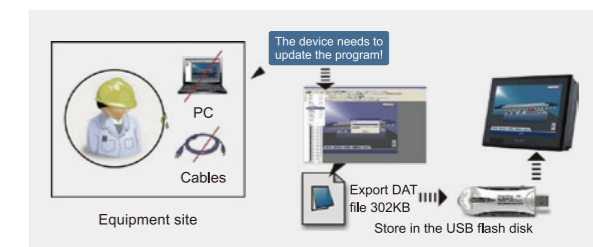
### Program download based on USB-B interface

- USB-B interface complies with USB2.0 standard interface, connect the computer with the USB-B port for high-speed data transmission and picture download through the USB communication cable, greatly shorten the download time and make it more convenient for users to debug the program.



### Use USB flash disk to quickly import the program through USB-A interface

- TG series models equipped with USB-A interface can directly download the program to HMI without computer but through USB flash disk. The download process is simple and fast, which is conducive to the confidentiality of the program. It is applicable to the situation that the program needs to be upgraded but there is no computer or download cable, saving time and cost.

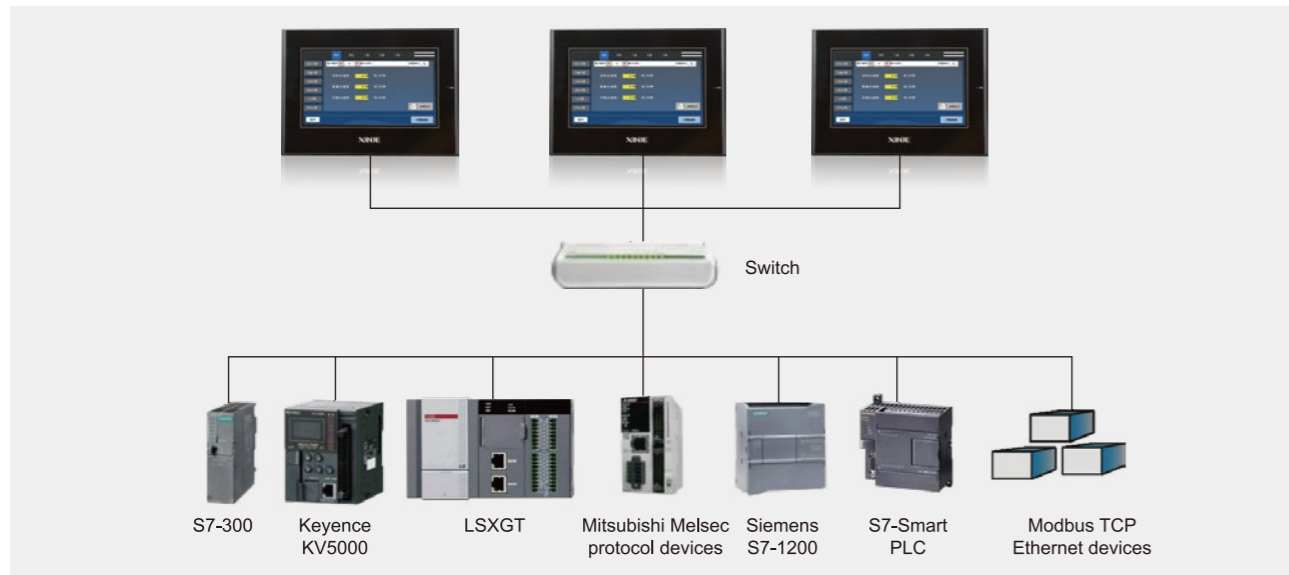


## Excellent Performance

### From independent stand-alone to network communication, multiple networking mode

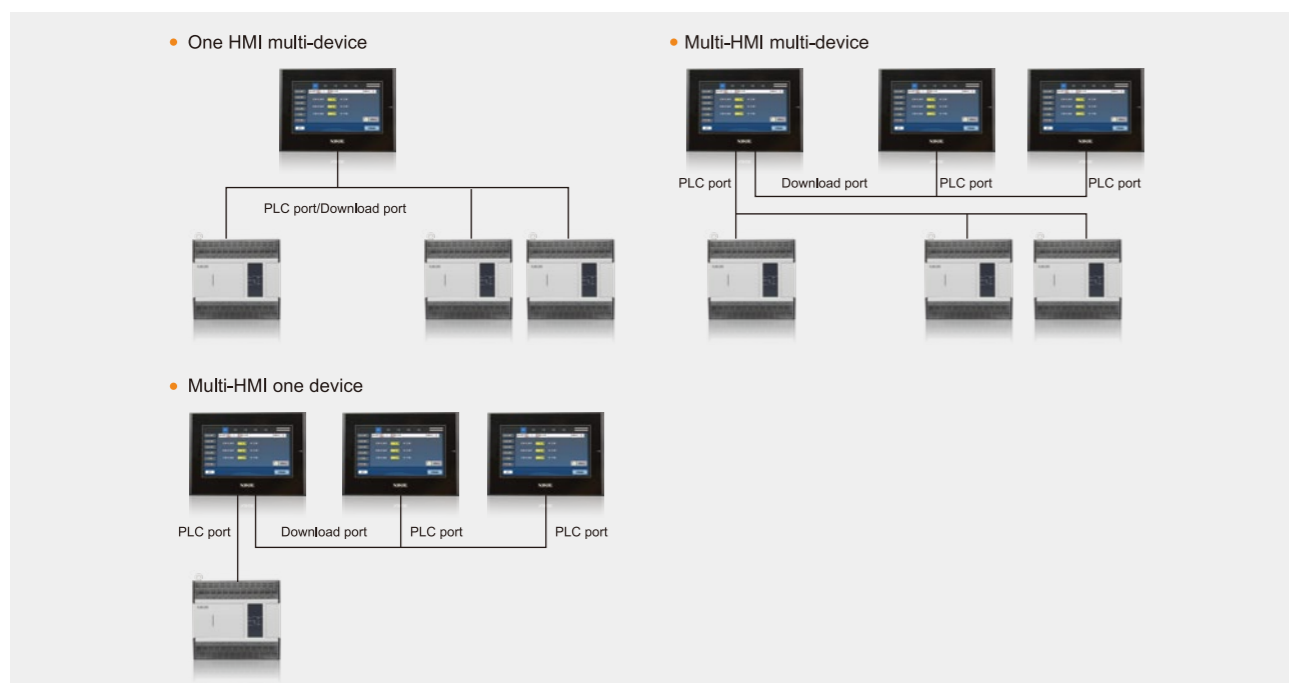
#### 1 Support Ethernet Communication, Improve Communication Speed, Suitable for Complex Field Environment

- Standard RJ45 Ethernet port
- It can form an open network structure with Modbus TCP devices, Siemens S7-1200, S7-300, Mitsubishi Melsec series, Keyence KV5000, LS XGT, Omron Fins TCP series and T-BOX.



#### 2 Various Networking Modes

- It can be networked according to the traditional master-slave mode or through X-NET bus.



## Wide Temperature Metal HMI

### TGM(D) series 10.1"

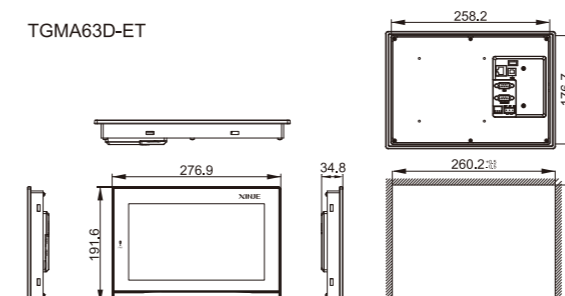
- New appearance and structure design, centralized interface
- Ultra thin body, with a thickness of only 34.8mm
- The metal cover of the whole machine greatly improves the anti-interference and heat dissipation
- The temperature range is -20°C~70°C, suitable for the site environment with high temperature requirements
- More industrial chips are adopted, and the performance is more stable



### Product specification

Product model		TGMA63D-ET
Product features	Display size	10.1"
	Resolution	1024*600
	LCD	TFT LCD display, LED backlight
	Display color	16.77 million colors
	Brightness	200 cd/m <sup>2</sup>
	Touch panel	Four-wire resistive touch screen
	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation
Interface	Memory	128MB
	PLC port	RS232/RS485/RS422
	Download port	RS232/RS485
	USB-A port	USB flash disk port, USB2.0 standard
	USB-B port	USB download port, USB2.0 standard
	Ethernet port	Standard RJ45
Electrical features	Input voltage	DC24V (voltage range: DC22V~DC26V)
	Consumption current	270mA
	Allowable power loss	Below 10ms (actual power loss less than 1s)
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute (signal and ground)
	Insulation resistance	Above 10MΩ, DC500V
	Operation temperature	-20~70°C
Environment	Storage temperature	-30~75°C
	Operation humidity	10%RH~90%RH (no condensation)
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute
	Air	No corrosive gas
	Cooling mode	Natural air cooling
	Protection level	Front cover IP65
Dimension	External dimension (mm)	276.9*191.6*34.8
	Opening size (mm)	260.2*178.7

### Appearance dimension drawing (Unit: mm)



# New appearance HMI

## TG(G) series 10.1" 7" 4.3"

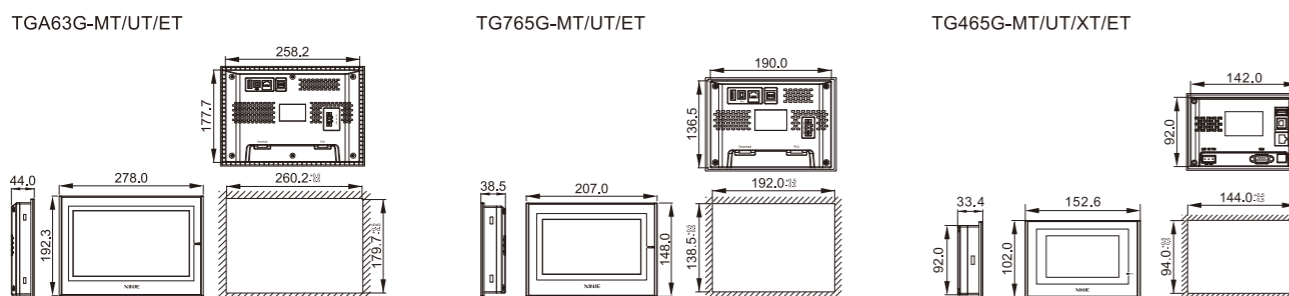
- The gray appearance design of the whole machine has strong visual impact
- Improved cover material, frosted texture
- The function and performance are the same to TG(S) series



### Product specification

Product model		TGA63G-MT TGA63G-UT TGA63G-ET	TG765G-MT TG765G-UT TG765G-ET	TG465G-MT TG465G-UT TG465G-ET TG465G-XT
Product features	Display size	10.1"	7"	4.3"
	Resolution	1024*600	800*480	480*272
	LCD	TFT LCD display, LED backlight		
	Display color	16.77 million colors		
	Brightness	200 cd/m <sup>2</sup>		
	Touch panel	Four-wire resistive touch screen		
	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation		
Memory	128MB			
Interface	PLC port	RS232/RS422/RS485	RS232/RS422/RS485	RS232/RS485/RS422 (XT model cannot support RS422)
	Download port	RS232/RS485	RS232/RS485	/
	USB-A port	USB flash disk port, USB2.0 standard. UT/ET model can support		
	USB-B port	USB download port, USB2.0 standard		
	Ethernet port	Standard RJ45, ET model can support		
Electrical features	Input voltage	DC24V (voltage range: DC22V~DC26V)		
	Consumption current	270mA	200mA	180mA
	Allowable power loss	Below 10ms (actual power loss less than 1s)		
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute		
	Insulation resistance	Above 10MΩ, DC500V		
Environment	Operation temperature	0°C ~ 50°C		
	Storage temperature	-20°C ~ 60°C		
	Operation humidity	10%RH~90%RH (no condensation)		
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute		
	Air	No corrosive gas		
	Cooling mode	Natural air cooling		
Dimension	Protection level	Front cover IP65		
	External dimension (mm)	278.0*192.3*44.0	207.0*148.0*38.5	152.6*102.0*33.4
	Opening size (mm)	260.2*179.7	192.0*138.5	144.0*94.0

### Appearance dimension drawing (Unit: mm)



# Ultrathin type HMI

## TG(S) series 10.1" 7"

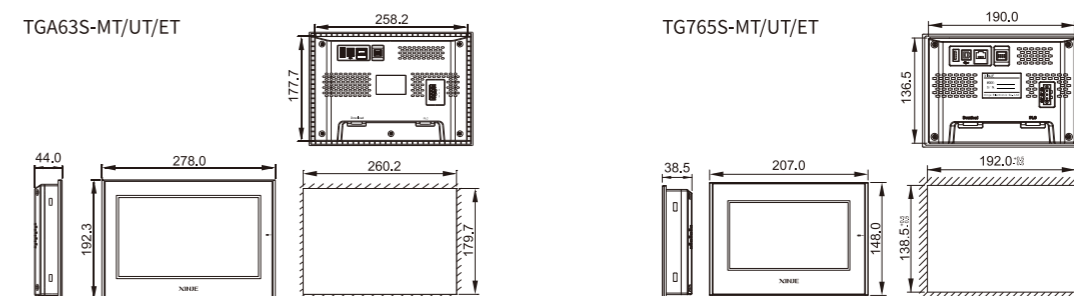
- Ultrathin and fashionable appearance design, 7" model thickness as low as 38.5mm
- The plastic cover made of PC and ABS alloy material (or flame retardant material) is more solid and durable
- Optimize the snap-fit design to effectively reduce the entry of external dust and oil stain
- The communication interface faces down to effectively save installation space



### Product specification

Product model		TGA63S-MT TGA63S-UT TGA63S-ET	TG765S-MT TG765S-UT TG765S-ET
Product features	Display size	10.1"	7"
	Resolution	1024*600	800*480
	LCD	TFT LCD display, LED backlight	
	Display color	16.77 million colors	
	Brightness	200 cd/m <sup>2</sup>	
	Touch panel	Four-wire resistive touch screen	
	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation	
Memory	128MB		
Interface	PLC port	RS232 / RS422 / RS485	
	Download port	RS232 / RS485	
	USB-A port	USB flash disk port, USB2.0 standard. UT/ET model can support	
	USB-B port	USB download port, USB2.0 standard	
	Ethernet port	Standard RJ45, ET model can support	
Electrical features	Input voltage	DC24V (voltage range: DC22V~DC26V)	
	Consumption current	270mA	200mA
	Allowable power loss	Below 10ms (actual power loss less than 1s)	
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute	
	Insulation resistance	Above 10MΩ, DC500V	
Environment	Operation temperature	0°C ~ 50°C	
	Storage temperature	-20°C ~ 60°C	
	Operation humidity	10%RH~90%RH (no condensation)	
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute	
	Air	No corrosive gas	
	Cooling mode	Natural air cooling	
Dimension	Protection level	Front cover IP65	
	External dimension (mm)	278.0*192.3*44.0	207.0*148.0*38.5
	Opening size (mm)	260.2*179.7	192.0*138.5

### Appearance dimension drawing (Unit: mm)



# Network type HMI

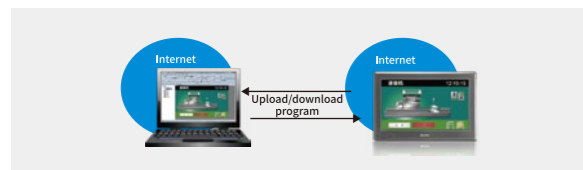
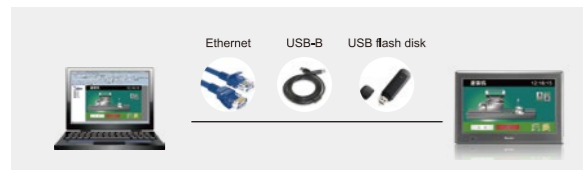
## TGM series 15.6" 10.1" 8" 7" 4.3"

- With penetration function, can upload/download Xinje XD/XL/XG series PLC program through the HMI
- Support three download modes: Ethernet, USB-B, USB flash disk import program
- Ethernet port supports LAN and WAN connection, which is more convenient to use



### 1 Remote Upload/download HMI Program Through Ethernet Port

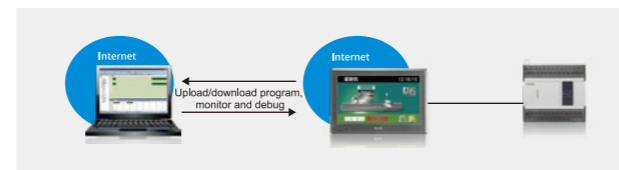
- TGM series HMI supports three download modes: Ethernet download, USB-B download, USB flash disk import. Ethernet download supports LAN and WAN, greatly improves the download speed and facilitates program debugging and later maintenance.



### 2 Penetration function

Support Ethernet communication, improve communication speed, suitable for complex field environment

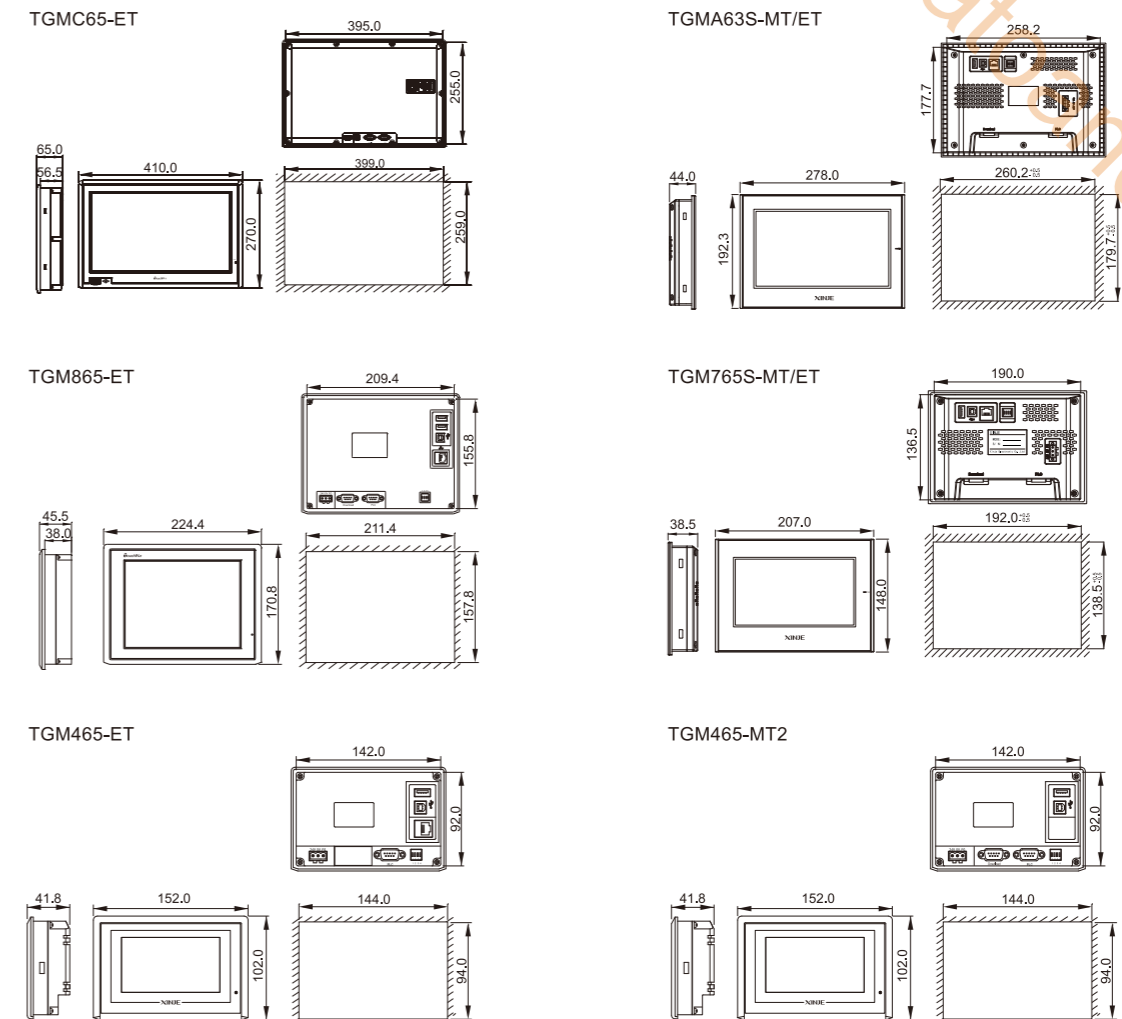
- Xinje XG/XL/XD series PLC program can be downloaded/uploaded and monitored through the HMI. The connection method can be Ethernet or USB. Ethernet mode supports LAN and remote operation.



## Product specification

Product model	TGMC65-ET	TGMA63S-MT TGMA63S-ET	TGM865-ET	TGM765S-MT TGM765S-ET	TGM465-MT2 TGM465-ET
Display size	15.6"	10.1"	8"	7"	4.3"
Resolution	1366*768	1024*600	800*600	800*480	480*272
LCD	TFT LCD display, LED backlight				
Display color	16.77 million colors				
Brightness	250 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>			
Touch panel	Four-wire resistive touch screen				
LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation				
Memory	128MB				
PLC port	RS232/RS422/RS485				
Download port	RS232/RS485 (TGM465-ET no download port)				
USB-A port	USB flash disk port, USB2.0 standard				
USB-B port	USB download port, USB2.0 standard				
Ethernet port	Standard RJ45, ET model can support				

## Appearance dimension drawing (Unit: mm)



## Product specification

Product model	TGMC65-ET	TGMA63S-MT TGMA63S-ET	TGM865-ET	TGM765S-MT TGM765S-ET	TGM465-MT2 TGM465-ET
Electrical features	Input voltage	DC24V (voltage range: DC22V~DC26V)			
	Consumption current	730mA	270mA	250mA	200mA
	Allowable power loss	Below 10ms (actual power loss less than 1s)			
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute			
	Insulation resistance	Above 10MΩ, DC500V			
Environment	Operation temperature	0°C~50°C			
	Storage temperature	-20°C~60°C			
	Operation humidity	10%RH~90%RH (no condensation)			
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute			
	Air	No corrosive gas			
Dimension	Cooling mode	Natural air cooling			
	Protection level	Front cover IP65			
	External dimension (mm)	410.0*270.0*65.0	278.0*192.3*44.0	224.4*170.8*45.5	207.0*148.0*38.5
Opening size (mm)	399.0*259.0	260.2*179.7	211.4*157.8	192.0*138.5	144.0*94.0



# General HMI

## TG series 15.6" 10.1" 8" 7" 4.3"

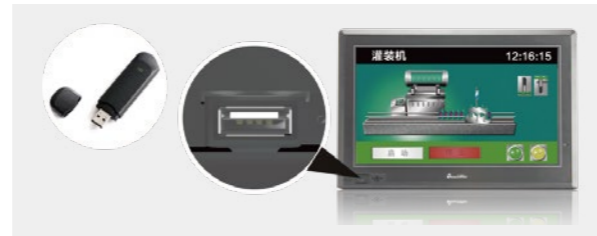
- Covering complete display size, the product lineup is abundant
- It has various functions and is suitable for most industrial sites
- USB-A front port design, easy to use (TGC65, TGA62 support)



### 1 USB-A front Interface Design, More Convenient Operation

TGC65 / TGA62 support

USB-A interface is used for data import and export. This interface is designed on the front of the panel. When transmitting data, there is no need to open the control cabinet. It is easy to operate and greatly improves the work efficiency.

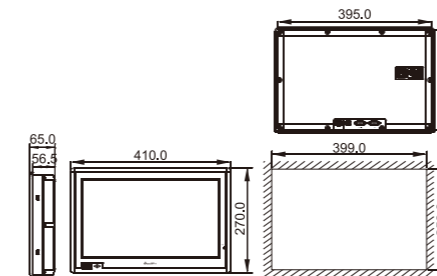


## Product specification

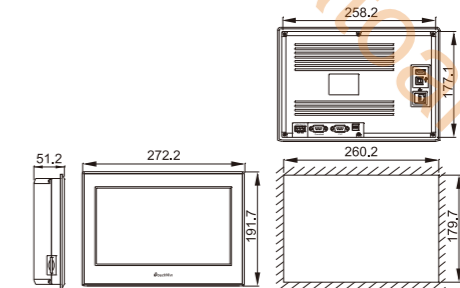
Product model		TGC65-ET	TGA63-MT TGA63-UT TGA63-ET	TGA62-MT TGA62-ET	TG865-MT TG865-ET	TG765-MT TG765-UT TG765-ET	TG465-MT TG465-UT TG465-ET	TG465-MT2 TG465-UT2 TG465-XT	
Product features	Display size	15.6"	10.1"	10.1"	8"	7"	4.3"		
	Resolution	1366*768	1024*600	800*480	800*600	800*480	480*272		
	LCD	TFT LCD display, LED backlight							
	Display color	16.77 million colors							
	Brightness	250 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>						
Interface	Touch panel	Four-wire resistive touch screen							
	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation							
	Memory	128MB							
	PLC port	RS232/RS422/RS485							
Electrical features	Download port	RS232/RS485						RS232/RS485 (only -MT2/UT2 model support)	
	USB-A port	USB flash disk port, USB2.0 standard. UT/ET model can support							
	USB-B port	USB download port, USB2.0 standard							
	Ethernet port	Standard RJ45, ET model can support							
Environment	Input voltage	DC24V (voltage range: DC22V~DC26V)							
	Consumption current	730mA	270mA	250mA	200mA	180mA			
	Allowable power loss	Below 10ms (actual power loss less than 1s)							
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute							
	Insulation resistance	Above 10MΩ, DC500V							
Dimension	Operation temperature	0°C~50°C							
	Storage temperature	-20°C~60°C							
	Operation humidity	10%RH~90%RH (no condensation)							
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute							
	Air	No corrosive gas							
	Cooling mode	Natural air cooling							
	Protection level	Front cover IP65							
Dimension	External dimension (mm)	410.0*270.0*65.0	272.2*191.7*51.2	272.2*191.7*51.2	224.4*170.8*45.5	200.4*146.9*48.5	152.0*102.0*41.8		
	Opening size (mm)	399.0*259.0	260.2*179.7	260.2*179.7	211.4*157.8	192.0*138.5	144.0*94.0		

## Appearance dimension drawing (Unit: mm)

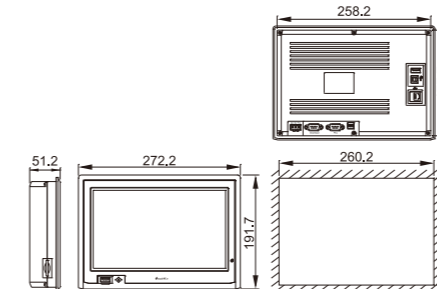
TGC65-ET



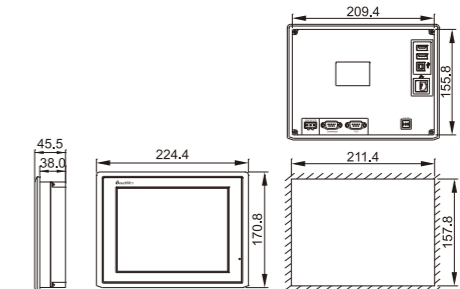
TGA63-MT/UT/ET/NT



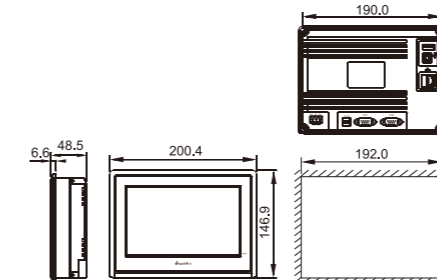
TGA62-MT/ ET



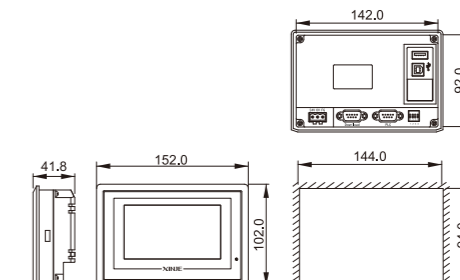
TG865-MT/ ET



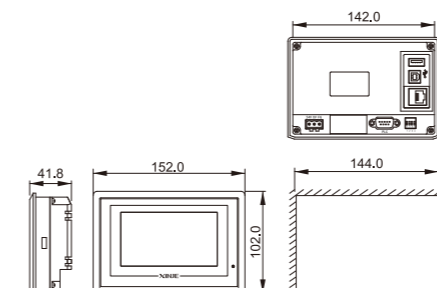
TG765-MT/ UT/ ET



TG465- MT2/ UT2



TG465-MT/ UT/ ET/ XT



# Highlight type HMI

## TGM(L) series 7"

- Based on the network series products (TGM), the brightness is increased to 530, which can be used in outdoor occasions

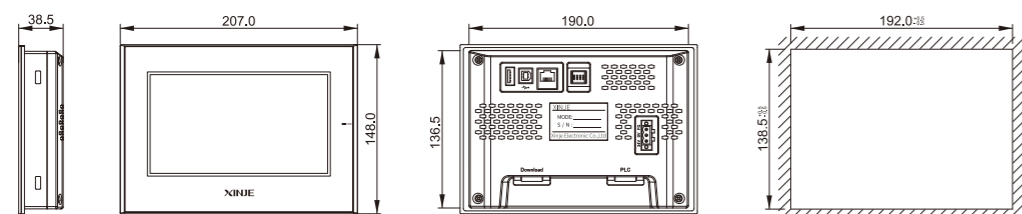


### Product specification

Product model		TGM765L-MT	TGM765L-ET
Product features	Display size	7"	
	Display color	16.77 million colors	
	Resolution	800*480	
	Brightness	530 cd/m <sup>2</sup>	
	Touch panel	Four-wire resistive touch screen	
	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation	
Interface	Memory	128MB	
	PLC port	RS232/RS485/RS422	
	Download port	RS232/RS485	
	USB-A port	USB flash disk port, USB2.0 standard	
Electrical features	USB-B port	USB download port, USB2.0 standard	
	Ethernet port	/	Standard RJ45
Environment	Input voltage	DC24V (voltage range: DC22V~DC26V)	
	Consumption current	200mA	
	Allowable power loss	Below 10ms (actual power loss less than 1s)	
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute (signal and ground)	
	Insulation resistance	Above 10MΩ, DC500V (signal and ground)	
Dimension	Operation temperature	0-50°C	
	Storage temperature	-20-60°C	
	Ambient humidity	10%RH~90%RH (no condensation)	
	Vibration resistance	10~25Hz (X, Y, Z direction each 30 minutes 2G)	
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute	
	Air	No corrosive gas	
	Protection level	Front cover IP65	
	Cooling mode	Natural air cooling	
	External dimension (mm)	207.0*148.0*38.5	
	Opening size (mm)	192.0*138.5	

### Appearance dimension drawing (Unit: mm)

TGM765L-MT/ET



# Oil resistant type HMI

## TG(P) series 10.1" 7" 4.3"

- The oil resistant type redesign the upper cover and film on the basis of the general TG series products, and increase the width of the back glue of the film, so as to achieve the purpose of more oil resistance on the front
- It is applicable to the environment with heavy oil pollution, and other functions are the same as the general type

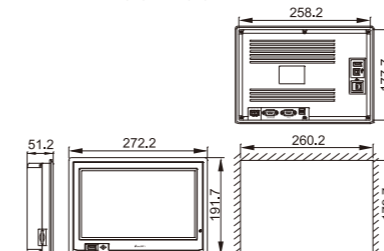


### Product specification

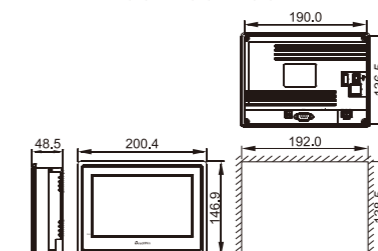
Product model		TGA62-MT(P) TGA62-ET(P)	TG765-MT(P) TG765-UT(P)	TG765-XT(P)-C	TG465-MT(P)
Product features	Display size	10.1"	7"	7"	4.3"
	Resolution	800*480	800*480	800*480	480*272
	LCD	TFT LCD display, LED backlight			
	Display color	16.77 million colors			
	Brightness	200 cd/m <sup>2</sup>			
	Touch panel	Four-wire resistive touch screen			
Interface	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation			
	Memory	128MB			
	PLC port	RS232/RS422/RS485	/	RS232	RS232/RS422/RS485
	Download port	RS232/RS485	/	/	/
Electrical features	USB-A port	USB flash disk port, USB2.0 standard, UT(P)/ET(P) models support			
	USB-B port	USB download port, USB2.0 standard			
	Ethernet port	Standard RJ45, ET(P) models support	/	/	/
	Input voltage	DC24V (voltage range: DC22V~DC26V)			
Environment	Consumption current	270mA	200mA	200mA	180mA
	Allowable power loss	Below 10ms (actual power loss less than 1s)			
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute			
	Insulation resistance	Above 10MΩ, DC500V			
	Operation temperature	0°C~50°C			
Dimension	Storage temperature	-20°C~60°C			
	Operation humidity	10%RH~90%RH (no condensation)			
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute			
	Air	No corrosive gas			
	Cooling mode	Natural air cooling			
	Protection level	Front cover IP65			
Dimension	External dimension (mm)	272.2*191.7*51.2	200.4*146.9*48.5	200.4*146.9*48.5	152.0*102.0*41.8
	Opening size (mm)	260.2*179.7	192.0*138.5	192.0*138.5	144.0*94.0

### Appearance dimension drawing (Unit: mm)

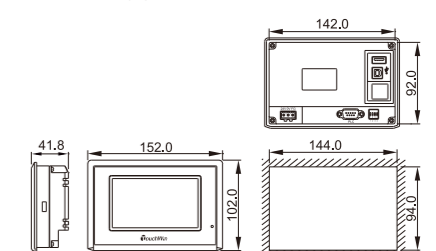
TGA62-MT(P)/ ET(P)



TG765-MT(P)/ UT(P) /XT(P)-C



TG465-MT(P)



# Economic type HMI

## Economic type TG series 7"

### TG-XT

- On the basis of general type TG/ultra-thin type TG(S)/new appearance TG(G) series products, one or two RS232 serial ports are reserved, with standard clock function  
Note: the serial port only supports RS232 communication mode

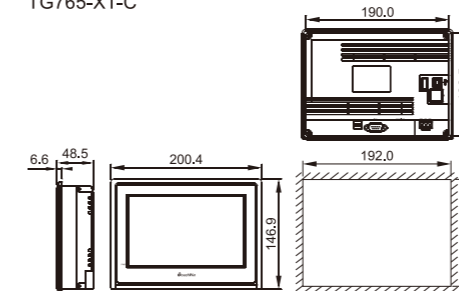
### TG-ZT

- Remove RS422 communication mode on the basis of new appearance TG(G) series products  
Note: the internal register PFW is stored every 1 minute

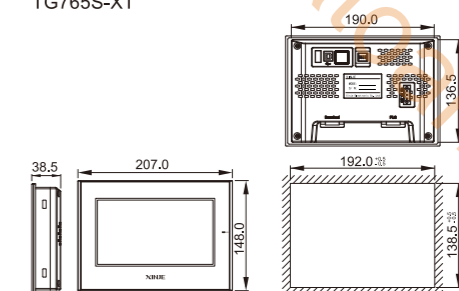


## Appearance dimension drawing (Unit: mm)

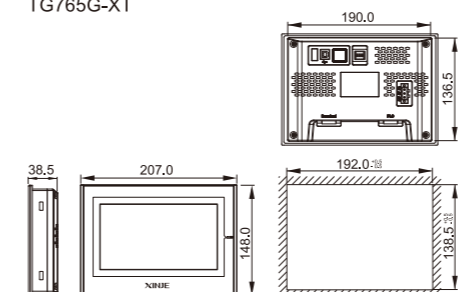
TG765-XT-C



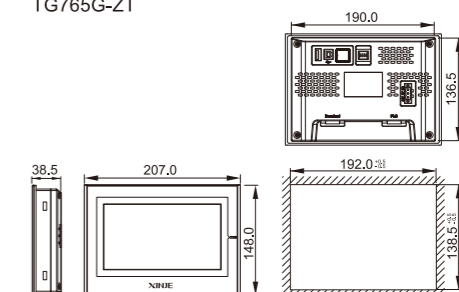
TG765S-XT



TG765G-XT



TG765G-ZT



## Product specification

Product model		TG765-XT-C	TG765S-XT	TG765G-XT	TG765G-ZT
Product features	Display size	7"			
	Resolution	800*480			
	LCD	TFT LCD display, LED backlight			
	Display color	16.77 million colors	16.77 million colors	16.77 million colors	65535 colors
	Brightness	200 cd/m <sup>2</sup>			
Touch panel	Four-wire resistive touch screen				
LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation				
Memory	128MB	128MB	128MB	64MB	
Interface	PLC port	RS232	RS232	RS232	RS232/RS485
	Download port	/	RS232	RS232	RS232
	USB-A port	/	/	/	USB-A (USB2.0 standard), USB flash disk port
	USB-B port	USB-B (USB2.0 standard), USB download port			
Ethernet port	/				
Electrical features	Input voltage	DC24V (voltage range: DC22V~DC26V)			
	Consumption current	200mA			
	Allowable power loss	Below 10ms (actual power loss less than 1s)			
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute			
	Insulation resistance	Above 10MΩ, DC500V			
Environment	Operation temperature	0°C~50°C			
	Storage temperature	-20°C~60°C			
	Operation humidity	10%RH~90%RH (no condensation)			
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute			
	Air	No corrosive gas			
	Cooling mode	Natural air cooling			
	Protection level	Front cover IP65			
Dimension	External dimension (mm)	200.4*146.9*48.5	207.4*148.0*38.5	207.4*148.0*38.5	207.4*148.0*38.5
	Opening size (mm)	192.0*138.5			

# X-NET bus type HMI

## TG-NT series 10.1" 7"

- Special models for X-NET bus function, include single HMI and multi-HMI mode, the baud rate up to 3Mbps
- PLC port supports RS485 and with JA-NE-I connection board, download port supports RS232/RS485/RS422

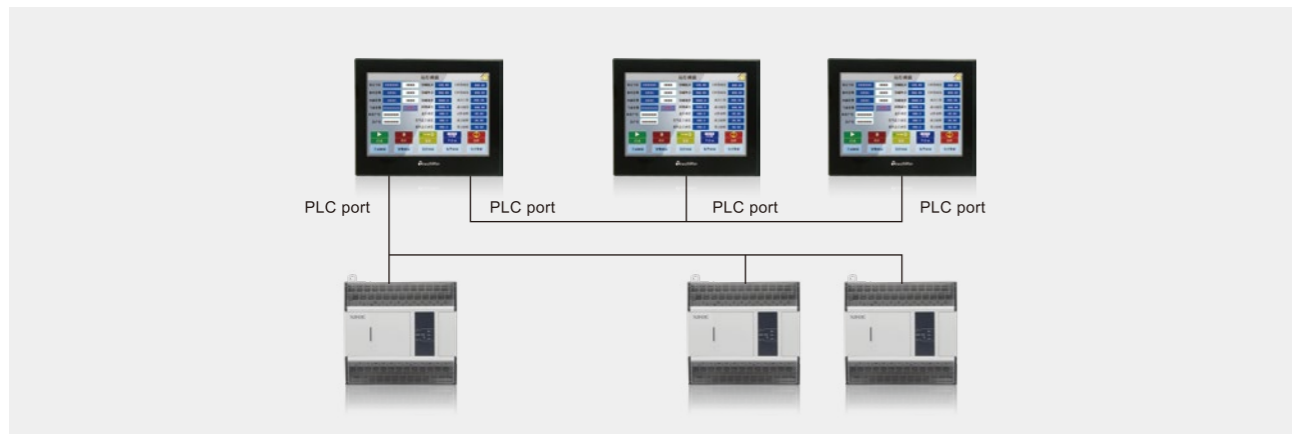


### 1 X-NET Bus

- The slave device download port is open and available
- For the system connection diagram, please refer to the PLC network structure diagram
- Only support the communication with Xinje XG/XL/XD series PLC
- The speed can up to 3M, realize hysteresis free communication
- TG/TG(P) series support X-NET bus OMMS mode. -NT series support X-NET bus OMMS mode and TBN mode, other models only support OMMS mode.



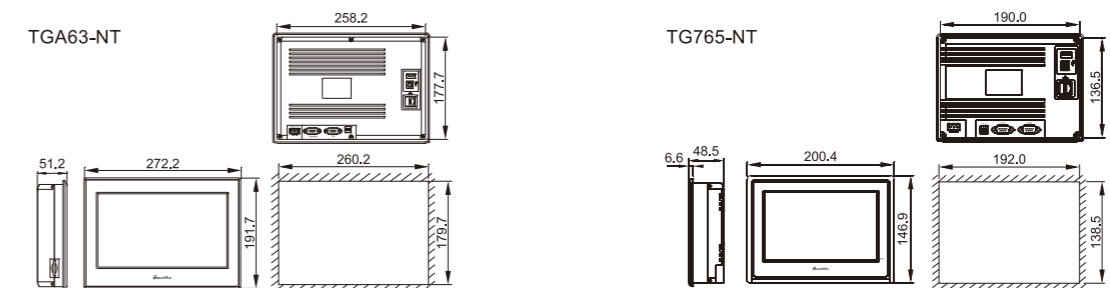
- -NT series support various X-NET bus communication modes, including one-HMI one-device, one-HMI multi-device, multi-HMI one-device mode, the speed can up to 3M.



## Product specification

Product model		TGA63-NT	TG765-NT
Product features	Display size	10.1"	7"
	Resolution	1024*600	800*480
	LCD	TFT LCD display, LED backlight	
	Display color	16.77 million colors	
	Brightness	200 cd/m <sup>2</sup>	
	Touch panel	Four-wire resistive touch screen	
	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation	
Interface	Memory	128MB	
	PLC port	RS485	
	Download port	RS232/RS422/RS485	
	USB-A port	USB flash disk port, USB2.0 standard	
	USB-B port	USB download port, USB2.0 standard	
Electrical features	Ethernet port	Standard RJ45 port	
	Input voltage	DC24V (voltage range: DC22V~DC26V)	
	Consumption current	270mA	200mA
	Allowable power loss	Below 10ms (actual power loss less than 1s)	
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute	
Environment	Insulation resistance	Above 10MΩ, DC500V	
	Operation temperature	0-50°C	
	Storage temperature	-20-60°C	
	Operation humidity	10%RH~90%RH (no condensation)	
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute	
	Air	No corrosive gas	
	Cooling mode	Natural air cooling	
Dimension	Protection level	Front cover IP65	
	External dimension (mm)	272.2*191.7*51.2	200.4*146.9*48.5
	Opening size (mm)	260.2*179.7	192.0*138.5

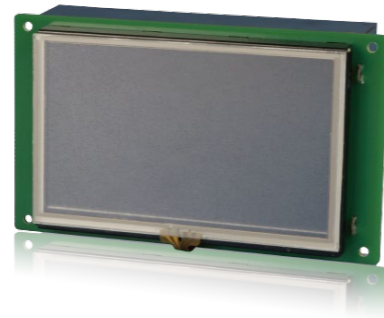
## Appearance dimension drawing (Unit: mm)



# Embedded without border HMI

## TGM(B) series 10.1" 7"

- No front cover, rear installation, greatly reducing the installation space
- It fits closely with the surface of the equipment for better fusion
- Users can design their own mask to meet the needs of personalized customization
- It is especially suitable for vehicle, medical, testing and other applications

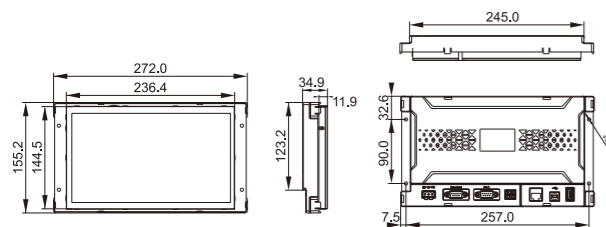


### Product specification

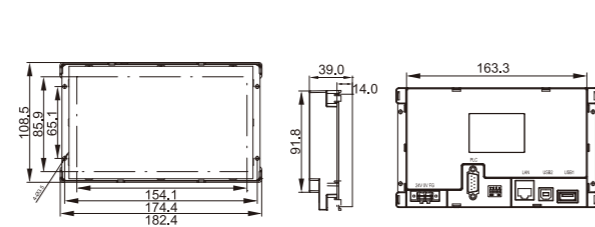
Product model		TGMA63B-ET	TGM765B-MT/UT
Product features	Display size	10.1"	7"
	Resolution	1024*600	800*480
	LCD	TFT LCD display, LED backlight	
	Display color	16.77 million colors	
	Brightness	200 cd/m <sup>2</sup>	
	Touch panel	Four-wire resistive touch screen	
	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation	
	Memory	128MB	
Interface	PLC port	RS232/RS485/RS422	
	Download port	RS232/RS485	/
	USB-A port	USB flash disk port, USB2.0 standard, ET models support	
	USB-B port	USB download port, USB2.0 standard	
	Ethernet port	Standard RJ45 port, ET models support	
Electrical features	Input voltage	DC24V (voltage range: DC22V~DC26V)	
	Consumption current	270mA	200mA
	Allowable power loss	Below 10ms (actual power loss less than 1s)	
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute	
	Insulation resistance	Above 10MΩ, DC500V	
Environment	Operation temperature	0°C~50°C	
	Storage temperature	-20°C~60°C	
	Operation humidity	10%RH~90%RH (no condensation)	
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute	
	Air	No corrosive gas	
	Cooling mode	Natural air cooling	
	Protection level	/	
	Dimension	External dimension (mm)	272.0*155.2*34.9
	Opening size (mm)	257.0*90	174.4*65.1

### Appearance dimension drawing (Unit: mm)

TGMA63B-ET



TGM765B-MT/ET



# Handheld wireless HMI

## MTG series 7"

- Exquisite appearance, handheld operation, more flexible
- Built-in mobile power supply, convenient charging and long battery life
- Wireless communication with PLC, fast air transmission speed (up to 115200bps), long communication distance and strong stability

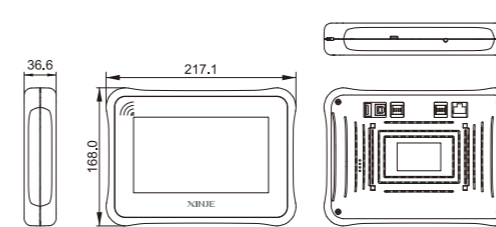


### Product specification

Product model		MTG765-HT
Screen features	Display size	7.0"
	Display color	16.77 million colors
	Resolution	800*480
	Brightness	Adjustable (system register PFW100)
	Touch panel	Four-wire resistive touch panel
	Service life	Above 50000 hours, ambient temperature 25°C, 24-hour operation
	Character setting	Chinese, English, Japanese, Russian, German, etc
	Character size	Any font and size
Memory	Memory	128MB
	Power	4W
Electrical features	Charging parameters	5.0V-2.0A 9.0V-2.0A 12.0V-1.5A
	Endurance time (always on)	8 hours
	Charging time	< 10 hours
Environment	Operation temperature	0-45°C
	Ambient humidity	10%RH~90%RH (no condensation)
	Ambient air	No corrosive gas
	Protection level	The front panel complies with IP65
Structure	Cooling method	Natural air cooling
	External dimension (mm)	217.1*158.0*36.6
Interface	PLC port (built-in)	Built-in PLC port integrated wireless communication module
	USB-A port	USB flash disk port, USB2.0 standard
	USB-B port	USB download port, USB2.0 standard
	Micro-USB	Micro-USB, USB charging port
	Ethernet port	Standard RJ45 port

### Appearance dimension drawing (Unit: mm)

MTG765-HT



# Handheld teaching pendant

## RT760 series 7"

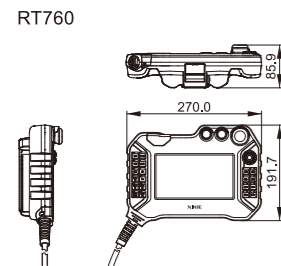
- Fully consider the convenience of use, ergonomic holding structure, easy to hold with one hand and two hands
- The back magnet design can liberate hands and mobile operation without place limit
- All round reassuring protection, and the protection grade of the whole machine can reach IP66
- Fast and convenient programming



### Product specification

Product model		RT760
Product features	Display size	7"
	Resolution	800*480
	Display	16.77 million colors, TFT LCD display, LED backlight
	Brightness	200 cd/m <sup>2</sup>
	Touch panel	Four-wire resistive touch panel
	Button	20 film buttons, the function can be set freely
Interface	Memory	128MB
	PLC port	RS485
	USB-A port	USB flash disk port, USB2.0 standard
Electrical features	USB-B port	USB download port, USB2.0 standard
	Input voltage	DC24V (voltage range: DC22V~DC26V)
	Consumption current	200mA
Environment	Allowable power loss	Below 10ms (actual power loss less than 1s)
	Operation temperature	0-50°C
	Storage temperature	-20-60°C
	Protection level	IP66 for the whole machine

### Appearance dimension drawing (Unit: mm)



## RT710/RT750 series 7"

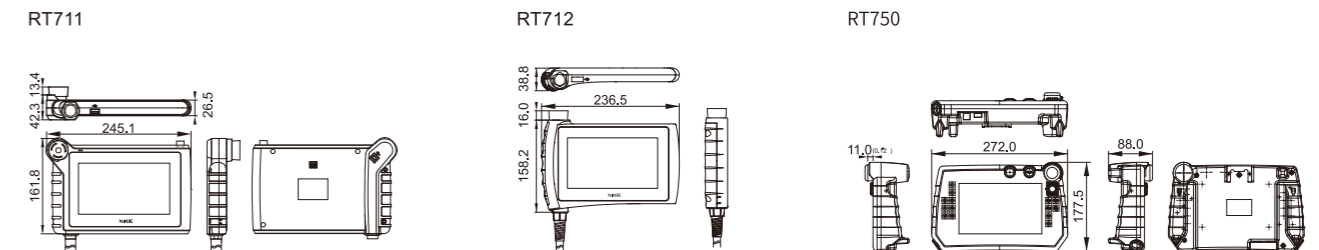
- Convenient field equipment test, widely used in manufacturing and industrial robot industry
- Golden ratio grip feeling, extremely suitable for one hand or two hands operation habits
- Application development is simple and fast



### Product specification

Product model		RT711/712/750
Features	Resolution	800*480
	Display size	7.0"
	Display	TFT true colors, 16.77 million colors
	Memory	128MB
	Screen editing	Software editing, easy to learn, the picture is vivid, supports bmp, jpeg format pictures
	Brake switch	Emergency stop switch can effectively ensure the safety of the system in case of abnormal emergency
	Communication port	USB-A port, USB-B port, COM port (RS485, X-NET bus)
	Special function	Data backup (CSV file data import export), custom animation, XY trend map
	Button (only for RT750)	Touch area touch keys, flexible and free, with 14 external film keys, free function setting, sensitive and accurate

### Appearance dimension drawing (Unit: mm)



# HMI special for ship navigation

## CCSG series 15.6" 10.1" 7"

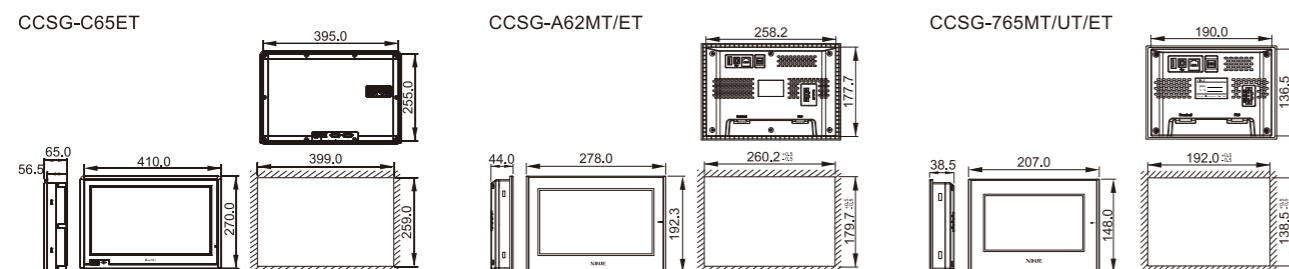
- Certified by China Classification Society, it is applicable to ships and marine facilities to meet the specific needs of the environment and ensure the stable and reliable operation of the system



### Product specification

Product model		CCSG-C65ET	CCSG-A62MT CCSG-A62ET	CCSG-765MT CCSG-765UT CCSG-765ET
Product features	Display size	15.6"	10.1"	7"
	Resolution	1366*768	1024*600	800*480
	LCD	TFT LCD display, LED backlight		
	Display color	16.77 million colors		
	Brightness	250 cd/m <sup>2</sup>	200 cd/m <sup>2</sup>	
	Touch panel	Four-wire resistive touch screen		
	LCD life	Above 50000 hours, ambient temperature 25°C, 24-hour operation		
Interface	Memory	128MB		
	PLC port	RS232/RS422/RS485		
	Download port	RS232/RS485		
	USB-A port	USB flash disk port, USB2.0 standard, UT/ET models support		
	USB-B port	USB download port, USB2.0 standard		
Electrical features	Ethernet port	Standard RJ45 port, ET models support		
	Input voltage	DC24V (voltage range: DC22V~DC26V)		
	Consumption current	730mA	270mA	200mA
	Allowable power loss	Below 10ms (actual power loss less than 1s)		
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute		
Environment	Insulation resistance	Above 10MΩ, DC500V		
	Operation temperature	0°C~50°C		
	Storage temperature	-20°C~60°C		
	Operation humidity	10%RH~90%RH (no condensation)		
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute		
	Air	No corrosive gas		
	Cooling mode	Natural air cooling		
Dimension	Protection level	Front cover IP65		
	External dimension (mm)	410.0*270.0*65.0	278.0*192.3*44.0	207.0*148.0*38.5
	Opening size (mm)	399.0*259.0	260.2*179.7	192.0*138.5

### Appearance dimension drawing (Unit: mm)



# Operate panel

## OP series 3.7"

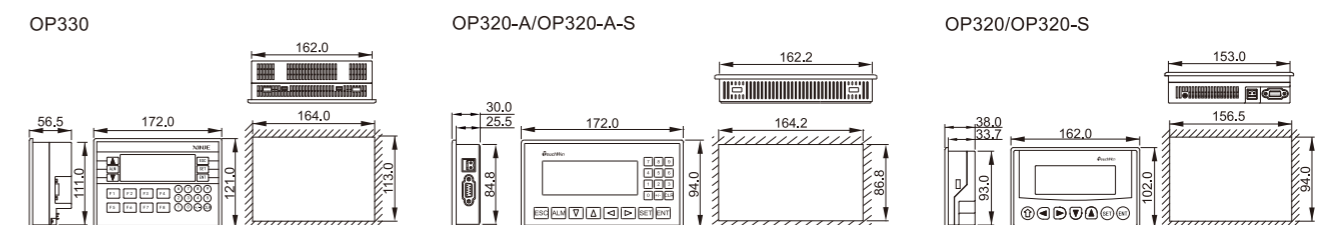
- OP series button type small-sized HMI, small and exquisite appearance
- The key function can be customized and can replace the mechanical button
- It has the basic functions of alarm, password, clock (optional), display bitmap, PLC control screen switching and so on
- Support the mainstream PLC and other control equipment in the market



### Product specification

Product model		OP330	OP320-A OP320-A-S	OP320 OP320-S
Product features	Display size	3.7"		
	Resolution	192*64		
	LCD	STN		
	Display color	Yellow green color		
	Brightness	Potentiometer adjustable		
	Touch panel	Not support		
	LCD life	Above 20000 hours, ambient temperature 25°C, 24-hour operation		
	Memory	64KB FlashROM		
	Character setting	Chinese, English		
	Character size	English: 8*16 16*32		
Interface	Button	26	20	7
	PLC port	general models support RS232/RS422, (-S) model supports RS232/RS485		
	Download port	RS232		
	USB-A port	/		
	USB-B port	/		
Electrical features	Ethernet port	/		
	Input voltage	DC24V (DC22V~26V)		
	Consumption current	<140mA		
	Allowable power loss	Below 10ms (actual power loss less than 1s)		
	Withstand voltage shock	AC1000V, 10mA, less than 1 minute		
Environment	Insulation resistance	Above 10MΩ, DC500V		
	Operation temperature	0°C~50°C		
	Storage temperature	-20°C~60°C		
	Operation humidity	10%RH~90%RH (no condensation)		
	Anti-interference ability	Voltage noise: 1500Vp-p, pulse width 1us, 1 minute		
	Air	No corrosive gas		
	Cooling mode	Natural air cooling		
Dimension	Protection level	Front cover IP65		
	External dimension (mm)	172.0*121.0*56.5	172.0*94.0*30.0	162.0*102.0*38.0
	Opening size (mm)	164.0*113.0	164.2*86.8	156.5*94.0

### Appearance dimension drawing (Unit: mm)



# TouchWin

## Outstanding picture expressiveness



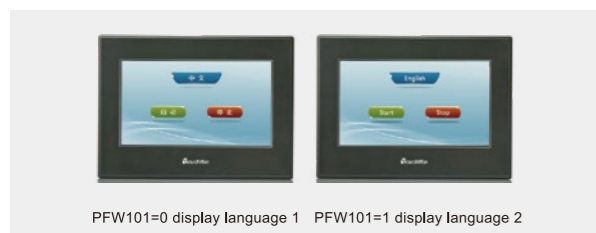
### 1 Rich 3D Gallery and Components Resources



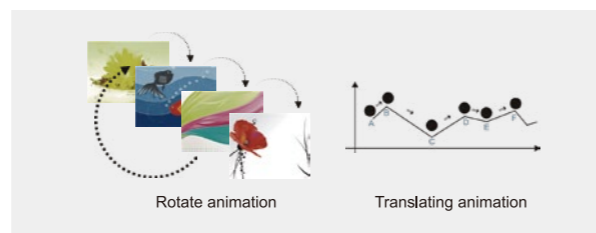
### 2 Various character forms



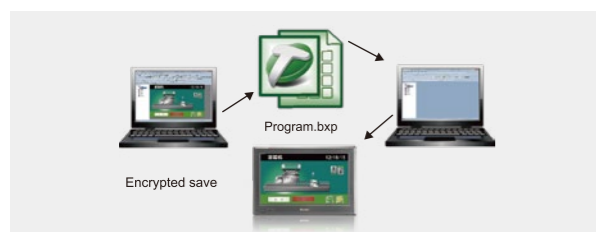
### 3 Support multiple languages and simple switching



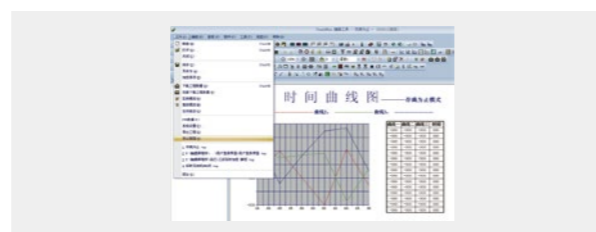
### 4 New animation editing method, rich performance



### 5 Program confidentiality function



### 6 Support screen export

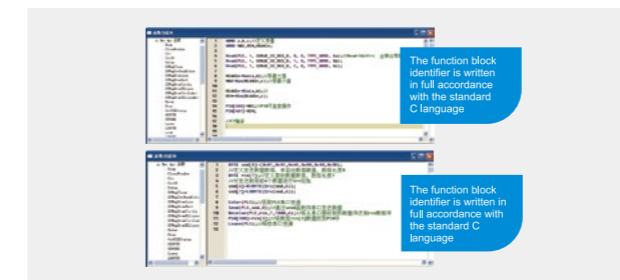


## Rich functional components

### C language function block, operation, command and communication are omnipotent

C language function block meets more complex computing and communication needs, give full play to the system functions and better serve customers.

#### 1 Support most standard C functions



#### 2 The function can be encrypted separately. You need to enter a password to view the function content, which protects the rights and interests of users



## Strong data processing capability

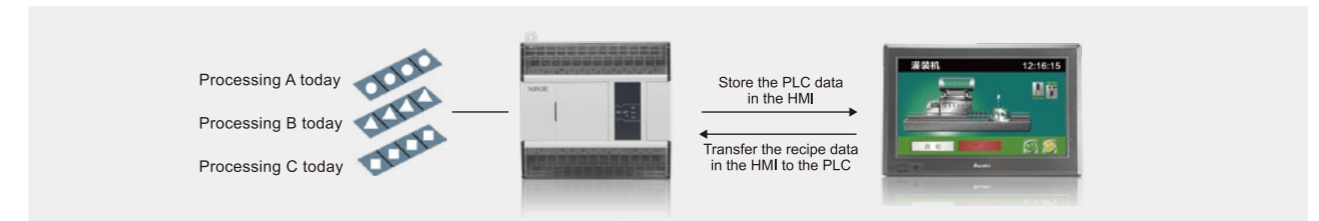
#### 1 Process control data acquisition function, and the trend chart display is more intuitive



#### 2 The Alarm Function Allows the System to Recover Quickly



#### 3 The storage and bidirectional transmission of recipe data greatly improve the work efficiency



#### 4 Export CSV format data through USB flash disk, backup important data

