### Description of alternative and discontinued products

Mass-produced	Discontinued	Note
GH150E	MT4720TE	The 15"green series HMIs, which is the enhanced series, has more serial ports.  Its installment size is different but hole dimension is same.
GH104E	MT4523TE	Same cutout size
GH070E	MT4424TE	Same cutout size
GH070	MT4404T	Same cutout size
GH043	MT4210T	Same cutout size
GH043E	MT4220TE	Same cutout size
G070	MT4414T	Same cutout size
G070E	MT4414TE	Same cutout size
G070E-CAN	MT4414TE-CAN	Same cutout size
G100E	MT4512T/MT4512TE	Same cutout size
G121E	MT4620TE	Same cutout size
GL150E		15" Economic type
GL104E	MT4513TE	Same cutout size
GL100E	MT4532TE	Same cutout size
GL100	MT4532T	Same cutout size
GL070E	MT4434TE	Same cutout size
GL070	MT4434T	Same cutout size
GL043E	MT4230TE	Same cutout size
GL043	MT4230T	Same cutout size

Mass-produced	Discontinued	Note
F080E	MT5423T MT4403T/MT4403TE	Same cutout size
F104E	MT5520T	Same cutout size
F104E-CAN	MT5520T-CAN	Same cutout size
F150E	MT5720T	Same cutout size
SZ7G	SZ7	Same overall dimension
SZ7GE	SZ7E	Same overall dimension
SZ7GS	SZ7S	Same overall dimension
SZ7GES	SZ7ES	Same overall dimension

### GREEN/FUTURE/ MT4000 series communication cables

Communication cable modle	Description of cable
Green-Micro USB	USB download cable from computer to GREEN series (with Micro USB) HMI (with magnetic ring)
MT54-PC	Serial download cable from GREEN/FUTURE/ MT4000 series HMI to the computer (3 meters)
MT54-CQM-FEMALE	RS232 communication cable between GREEN/FUTURE/MT4000 series HMI and OMRON C series PLC (3 meters)
MT54-FX-F	RS422 communication cable between GREEN/FUTURE/MT4000 series HMI and Mitsubishi FX series PLC (3 meters)
MT54-KC-FEMALE	RS232 communication cable between GREEN/FUTURE/MT4000 series HMI and Kinco PLC (3 meters)
MT54-S7-200-FEMALE	RS485 communication cable between GREEN/FUTURE/MT4000 series HMI and S7-200 series PLC (3 meters)
MT54-Schneider-M218	RS232 communication cable between GREEN/FUTURE/MT4000 series HMI and Schneider PLC (3 meters)

Tips: 1.For new projects, Kinco strongly suggest our customers to choose the Green series products and don't suggest to choose the MT4000 series.

2. The old projects in MT4000 series products can be opened directly in DTools. After simulation, they can downloaded to corresponding new type HMIs.

**Kinco**° Automation

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# **Kinco**

Official UK & Ireland Distributor



HMI
Touch Screen

# **○** Kinco HMI Catalogue

- GREEN Series
- FUTURE Series
- Customized Series



(1E20-210

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GREEN Series Description

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32 Construction Machinery: CZ6/CZ10

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Features of configuration software: DTools

Back cover

Description of alternative and discontinued products

# **GREEN Series Description**

# Focusing on industrial human-machine interface for 19 years we continue to provide high-quality products

The GREEN series is a new generation of industrial human machine interface. It adopts new architecture design, rigorous craft support, which makes it become paradigm in high-quality human machine interface.

The GREEN series adopts mainstream processor in the market. Not only does it ensure the product's life time, but also greatly improves the performance of the product.



# Powerful hardware and software More comprehensive upgrades

#### Structure

New structure & exquisite body

#### Material Science

Higher hardness and intensity; Higher temperature resistance

#### Color

16.7M (24 bits) true color \*Except for a few models

#### Kernel

Kernel, version upgrades, more stable performance

### CPU

CPU Freescale industrial class 800MHz

#### Memory

The memory DDR3 is upgraded to 128M

# Kinco new generation of industrial HMI GREEN Series

The GREEN series products use the most advantageous ARM Cortex-A7 architecture industrial-grade processors, which ensure that HMIs efficiently work.

Kinco's smart factory, provides reliable guarantee for high-quality production in long-term.

### GREEN Series contains multiple subseries:



- Up to 4 serial ports (excluding 4.3"), Ethernet
- Standard USB master port, slave port
- Built-in isolation power, serial port isolation (Ethernet model)
- Coating in mainboard



- 3 serial port, Ethernet
- Standard USB main port, slave port
- Built-in isolation power supply
- Coating in mainboard



- 2 serial port, Ethernet
- Standard USB master port, slave port (excluding 4.3")



- WiFi, 4G, Ethernet

### **Kinco HMI Teleservice**

- A value adding function for OEM

This dedicated teleservice is based on Kinco Edgeacess Iot platform.

#### Advantages:

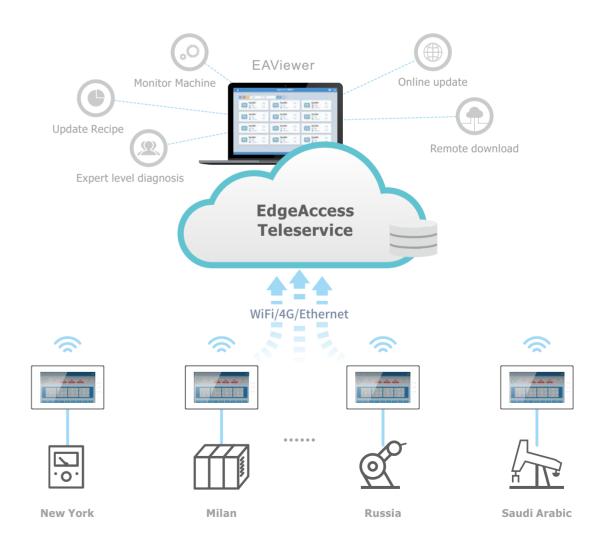
Easy to set up, Low cost, Reliable, High level data safety and No location limitation to access the machines.

#### **Applications:**

- HMI desktop access: Remotely monitor the machine in real time.
- Program update: Remotely download program to HMI and PLC program.
- Expert level Diagnosis: Remotely diagnose machine HMI and PLC program.
- Online update :Remotely update machine new recipe.

#### Support models:

- FUTURE series
- GREEN IOT GT series
- GREEN Gateway GW series
- GREEN Enhanced GH\*\*\*E series
- GREEN Standard G\*\*\*E series
   GREEN Economic GL\*\*\*E series



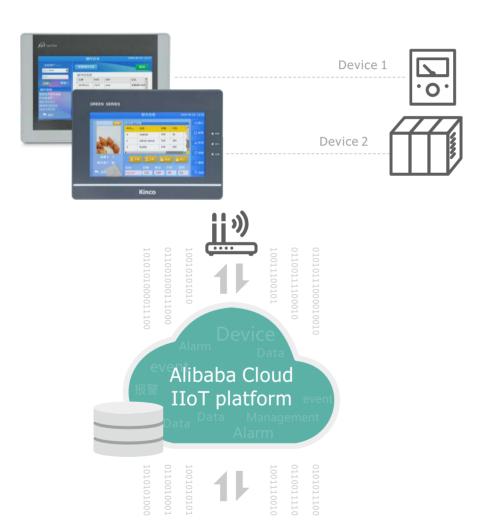
# **Enhanced Type**

## Easily Connect with Alibaba Cloud IIoT Platform

Help you to launch a new Industrial Internet Generation

The cloud IIoT solution of Green Series is able to help devices to connect with Cloud, and implement data transformation between device and cloud, device and device, and device to people.

- Monitor the operating status in real time
- Data acquisition assists with data analysis , product optimization and pre maintenance
- Report Fault alarm instantly
- Cost saving and no extra investment cost







Computer terminal

Mobile terminal

# GH043/GH043E

**GH Series** 

- Preferred models for subway, high-speed railway and other rail transit.

4.3"

- Main board Three-denfence treatment to effectively deal with complex environment.
- Built-in isolation power to enhance reliability.
- Classic shape, hidden serial port outlet.



Model	GH043	GH043E	Mechanical Dimensions (Unit:mm)
	G110 <del>4</del> 3	G11043E	Mechanical Difficusions (officially)
Performance specification	4.0		
Display size		"TFT	
Display area	. ,	*53.86mm(H)	
Resolution		72 pixels	
Display color		rue color	<u> </u>
Display angle of view		t/right/up/down)	145.2
Contrast ratio	50	0:1	
Backlight	L	ED	154
Brightness	3000	cd/m²	GREEN SERIES
Backlight life	More than	30000 hours	
Touch panel	4 line precision resistance no	etwork (surface hardness 4H)	89
CPU	ARM RISC 3	2Bit 800MHz	ON O
Storage	128MB NAND Flash Memo	ory+128MB DDR3 Memory	O
RTC	Bui	ilt-in	Kinco
Extensible memory	1 USB Host	1 USB Host + 1 SD Card	
Print port	USB Host/serial port	USB Host/serial port	59.8
Ethernet	None	10/100M self-adaption	-   -
Program download	USB Slave(Type B)/U disk	USB Slave(Type B)/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM2:RS232	COM0:RS232/RS485/RS422 COM2:RS232	80,2
Serial port isolation	None	None	
Electrical specifications	Notie	None	
Input power supply	DC10 9V - DC29V Built	in icolation neuror cumply	
	DC10.8V~DC28V, Built-in isolation power supply 3.5W @24V DC		
Rated power	-		
Allowable loss of power	<3ms		
Insulation resistance		2@500V DC	Ш
Hi-pot test	500 VAC 1 minute		
Structure specifications			
PCB		spraying	
Shell material	-	ing plastic	
Shape size		*60 mm	
Cutout size	146*8	81 mm	
Weight	0.4Kg		
Environmental specifications			
Operating ambient temperature	-20° C	~ 55° C	
Operating ambient humidity	10% to 90% noncondensing		
Storage ambient temperature	-25° C ~ 60° C		146
Storage ambient humidity	10% to 90% noncondensing		140
Sine vibration test	10~500Hz, 30m/s <sup>2</sup> , X, Y, Z direction/hour		
Cooling mode	Natural air cooling		
Product certification			81 Cut-out size
Panel protection grade	Conforming to IP65	certification(4208-93)	
CE authentication	EN61000-6-4:2007+A1:		
Software			
Configuration software	Kinco DTools	V3.3 and above	
5	1		

Note: GH043 is replacement of MT4210T. GH043E is replacement of MT4220TE. Programming of MT4000 can be used for Green series HMI after edited by DTools.

<sup>\*</sup> GREEN series models with Ethernet ports support this function.

# **Enhanced Type**

**GH Series** 

### GH043U2/GH043EU2

- Preferred models for subway, high-speed railway and other rail transit.
- Main board Three-denfence treatment to effectively deal with complex environment.
- Built-in isolation power to enhance reliability.
- Dual USB Host, front and rear can be connected to USB devices or U disk.



Model	GH043U2	GH043EU2	Mechanical Dimensions (Unit:mm)
Performance specification			
Display size	4.3	"TFT	
Display area	95.04mm(W)	)*53.86mm(H)	
Resolution	480*272 pixels		
Display color	16.7M true color		
Display angle of view	70/70/50/70(lef	t/right/up/down)	! Ш
Contrast ratio	500:1		454
Backlight	LED		154
Brightness	300cd/m <sup>2</sup>		
Backlight life	More than 1	30000 hours	GREEN SERIES
Touch panel	4 line precision resistance no	etwork (surface hardness 4H)	
CPU	ARM RISC 3	32Bit 800MHz	00 mm 0
Storage	128MB NAND Flash Memo	ory+128MB DDR3 Memory	Kinco
RTC	Bui	ilt-in	KillCO
Extensible memory	2 USB Host	2 USB Host + 1 SD Card	
Print port	USB Host*2/serial port	USB Host*2/serial port	145.2
Ethernet	None	10/100M self-adaption	74.75
Program download	USB Slave(Type B)/U disk	USB Slave(Type B)/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM2:RS232	COM0:RS232/RS485/RS422 COM2:RS232	
Serial port isolation	None	None	
Electrical specifications	None		<u> </u>
Input power supply	DC10.8V~DC28V, Built-	in isolation power supply	59.8
Rated power	3.5W @24V DC		
Allowable loss of power	<3	Bms	
Insulation resistance	Over 50M0	Ω@500V DC	
Hi-pot test	500 VAC	1 minute	
Structure specifications			
PCB	Exquisite	e spraying	
Shell material	Engineer	ing plastic	5
Shape size	154*89	)*60 mm	
Cutout size	146*8	81 mm	
Weight	0.4	4Kg	
Environmental specifications	s		
Operating ambient temperature	-25° C	~ 55° C	
Operating ambient humidity	10% to 90% i	noncondensing	
Storage ambient temperature	-25° C	~ 60° C	146
Storage ambient humidity	10% to 90% i	noncondensing	
Sine vibration test		X, Y, Z direction/hour	1
Cooling mode	, . ,	air cooling	
Product certification			₩ Cut-out size
Panel protection grade	Conforming to IP65 certification(4208-93)		
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005		1
Software			
Configuration software	Kinco DTools	V3.3 and above	



### GH070/GH070E

- Suitable for high reliability expected situations
- Three anti spraying + multiple isolation more reliable
- Up to four serial port +SD card expansion
- Artistically ultra-narrow border



Model	GH070	GH070E	Mechanical Dimensions (Unit:mr
Performance specification			
Display size	7"TFT		106.2
Display area	154.08mm(W)*85.92mm(H)		
Resolution	800*480 pixels		
Display color	16.7M tru	ie color	Eljai jairelai jair 9 H.H.H.
Display angle of view	70/70/50/70(left/	right/up/down)	192.8
Contrast ratio	500	:1	
Backlight	LEG		206.9
Brightness	400cd	/m²	GREEN SERIES
Backlight life	More than 30	0000 hours	GREEN GENES
Touch panel	4 line precision resistance net	work (surface hardness 4H)	4
CPU	ARM RISC 32	Bit 800MHz	124.4
Storage	128MB NAND Flash Memor	y+128MB DDR3 Memory	
RTC	Built	-in	Kinco
Extensible memory	1 USB Host	1 USB Host + 1 SD Card	-
Print port	USB Host/serial port	USB Host/serial port	44
Ethernet	None	10/100M self-adaption	41_ 5
Program download	USB Slave(Type B)/U disk	USB Slave(Type B)/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232, COM3:RS485		7-22
Serial port isolation	None	Built-in	
Electrical specifications			
Input power supply	DC12V~DC28V,Built-in is	solation power supply	
Rated power	5W @24	1V DC	1
Allowable loss of power	<3n	ns	
Insulation resistance	Over 50MΩ(	@500V DC	
Hi-pot test	500 VAC 1	minute	106.2
Structure specifications			
PCB	Exquisite s	spraying	
Shell material	Engineerin	g plastic	
Shape size	207*125*	'41 mm	
Cutout size	194*11	3 mm	
Weight	0.6k	(g	
Environmental specifications			
Operating ambient temperature	-10° C ∼		
Operating ambient humidity	10% to 90% noncondensing		194
Storage ambient temperature	-20° C ∼ 60° C		
Storage ambient humidity	10% to 90% noncondensing		†
Sine vibration test	10~500Hz, 30m/s², X	, Y, Z direction/hour	
Cooling mode	Natural air	Cut-out size	
Product certification			
Panel protection grade	Conforming to IP65 ce		<u> </u>
CE authentication	EN61000-6-4:2007+A1:20	011, EN61000-6-2:2005	
Software			
Configuration software	Kinco DTools V3	3.3 and above	

Note: GH070 is replacement of MT4404T, GH070E is replacement of MT4424TE. Programming of MT4000 can be used for Green series HMI after edited by DTools.

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# **Enhanced Type**

**GH Series** 

10.4"

### **GH104E**

- Suitable for high reliability expected situations
- Three anti spraying + multiple isolation more reliable
- Up to four serial port +SD card expansion
- Industrial screen ratio 4:3, display area is 20% higher than the wide-screen



Model	GH104E	Mechanical Dimensions (Unit:mm)
Performance specification		
Display size	10.4"TFT	
Display area	211.20mm(W)*158.40mm(H)	310
Resolution	800*600 pixel	
Display color	16.7M true color	
Display angle of view	70/70/60/70(left/right/up/down)	
Contrast ratio	500:1	
Backlight	LED	
Brightness	350cd/m <sup>2</sup>	
Backlight life	More than 30000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	ARM RISC 32Bit 800MHz	
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in	
Extensible memory	1 USB Host + 1 SD Card	45-0
Print port	USB Host/serial port	† `Y all
Ethernet	10/100M self-adaption	
Program download	USB Slave(Type B)/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM1: RS232/RS485/RS422 COM2:RS232, COM3: RS485	
Serial port isolation	Built-in	
Electrical specifications	Dane III	
Input power supply	DC10.8V~DC28V, Built-in isolation power supply	
Rated power	8W @24V DC	
Allowable loss of power	<3ms	
Insulation resistance	Over 50M Ω @500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specifications	500 77.0 2 77.11.11.11.1	
PCB	Exquisite spraying	T
Shell material	Engineering plastic	
Shape size	310*230*56 mm	
Cutout size	299*219 mm	Cut-out size
Weight	1.715Kg	
Environmental specifications	1.7 13 Ng	
Operating ambient temperature	-10° C ∼ 55° C	
Operating ambient humidity	10% to 90% noncondensing	299
Storage ambient temperature	-20° C ~ 60° C	255
Storage ambient humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification	natural all cooling	
Panel protection grade	Conforming to IP65 certification(4208-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software	2.701000 0 1.2007 (A1.2011) EN01000 0 2.2003	
Configuration software	Kinco DTools V3.3 and above	
Configuration software	KILICO D 10013 A212 alia anoAc	

Note: GH104E is replacement of MT4523TE.

Programming of MT4000 can be used for Green series HMI after edited by DTools.



### **GH150E**

- It is suitable for high reliability expected situations
- Three anti spraying + multiple isolation more reliable
- Up to four serial port +SD card expansion
- Fashion design, graceful and decent



Model	GH150E	Mech
Performance specification		
Display size	15"TFT	
Display area	304.13mm(W)*228.10mm(H)	
Resolution	1024*768 pixels	
Display color	65536 color	
Display angle of view	80/80/80(left/right/up/down)	
Contrast ratio	800:1	
Backlight	LED	
Brightness	420cd/m <sup>2</sup>	
Backlight life	50000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	ARM RISC 32Bit 800MHz	298
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in	
Extensible memory	1 USB Host + 1 SD Card	
Print port	USB Host/serial port	
Ethernet	10/100M self-adaption	
Program download	USB Slave(Micro USB)/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232, COM3:RS485	
Serial port isolation	Built-in	
Electrical specifications		
Input power supply	DC10.8V~DC28V,Built-in isolation power supply	
Rated power	16W @24V DC	
Allowable loss of power	<3ms	
Insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	_
Structure specifications		
PCB	Exquisite spraying	
Shell material	Engineering plastic	
Shape size	398*298*47 mm	
Cutout size	383*283 mm	
Weight	3Kg	
Environmental specifications		
Operating ambient temperature	-10° C ~ 55° C	
Operating ambient humidity	10% to 90% noncondensing	
Storage ambient temperature	-20° C ~ 60° C	
Storage ambient humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification	Conforming to IDCF and Stark and (4200, 02)	
Panel protection grade	Conforming to IP65 certification(4208-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software	16 PT 1 10 2 1 1	

Mechanical Dimensions (Unit:mm)
269
398
80 00
47 30 7 Include suiting states of the state of the stat
229
383
Cut-out size

Note: GH150E is replacement of MT4720TE.

Configuration software

Programming of MT4000 can be used for Green series HMI after edited by DTools.

Kinco DTools V3.3 and above

# Standard Type

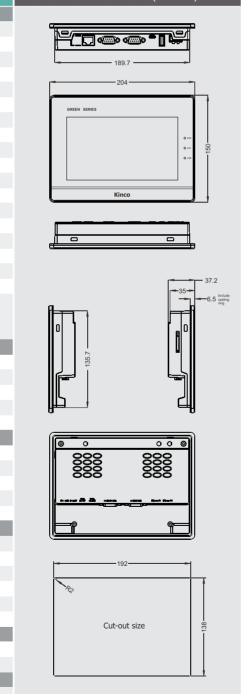


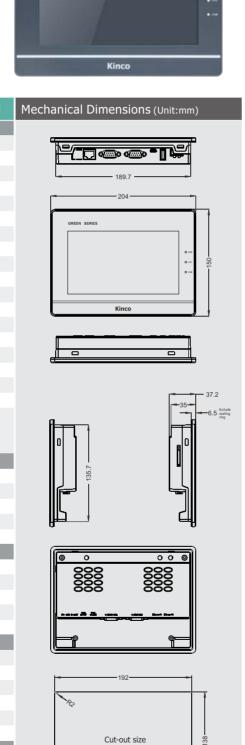
### G070/G070E/G070E-CAN

- Three anti spraying + built-in isolation power to enhance reliability
- High brightness liquid crystal provide better display effect
- CAN port is supported
- Three series ports meet diverse needs



Model	G070	G070E	G070E-CAN	Mechanical Dimen	sions
Performance specification					
Display size		7"TFT		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Display area	154	1.08mm(W)*85.92mn	n(H)		<b>6</b>
Resolution		800*480 pixels		18	39.7 ——
Display color		16.7M true color			
Display angle of view	70/70	)/60/70(left/right/up/	down)		204
Contrast ratio		500:1		GREEN SERIES	
Backlight		LED			
Brightness		400cd/m <sup>2</sup>			
Backlight life	1	More than 30000 hour	rs		
Touch panel	4 line precision re	sistance network (sur	face hardness 4H)		
CPU	А	RM RISC 32Bit 800MI	Нz		
Storage	128MB NAND F	lash Memory+128ME	B DDR3 Memory	Ki	inco
RTC		Built-in			
Extensible memory		1 USB Host			
Print port		USB Host/serial port			
Ethernet	None	, ,	self-adaption	<u>-</u>	
Bus interface	None	None	1*CANopen		
Program download	USB Slave(Micro USB)/U disk		sB)/U disk/Ethernet		
Communication port	COM0:RS232/RS485/RS422 COM1:RS485/RS422 COM2:RS232				
Electrical specifications					
Input power supply	DC12V~DC28V, Built-in isolation power supply		135		
Rated power		3.8W @24V DC			
Allowable loss of power		<3ms		<b>  </b>   ∟	
Insulation resistance		Over 50MΩ@500V D0	C	للطا	
Hi-pot test		500 VAC 1 minute			
Structure specifications				( o	
PCB		Exquisite spraying		999	9
Shell material		Engineering plastic			۶
Shape size		204*150*37 mm			
Cutout size		192*138 mm		notes the latest the same	
Weight	0.5Kg				
Environmental specifications	;				
Operating ambient temperature		0° C ~ 50° C			
Operating ambient humidity	10% to 90% noncondensing		l <del>=</del> 1	192	
Storage ambient temperature	-20° C ~ 60° C				
Storage ambient humidity	10% to 90% noncondensing			Ro	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour				
Cooling mode	Natural air cooling			Cut	out size
Product certification				Cut-	Jul SIZE
Panel protection grade	Conformin	g to IP65 certification	n(4208-93)		
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005				
Software					
Configuration software	Vin	co DTools V3.3 and al	hove		





Note: G070 is replacement of MT4414T, G070E is replacement of MT4414TE, G070E-CAN is replacement of MT4414TE-CAN. Programming of MT4000 can be used for Green series HMI after edited by DTools.



### G100/G100E

- Preferred model in food industry
- Three anti spraying + built-in isolation power to enhance reliability
- Three series ports meet diverse needs
- 1024\*600 high resolution to meet various needs



Model	G100	G100E	Mechanical Dimensions (Unit:mm)
Performance specification			
Display size	10.	1"TFT	215
Display area	222.72mm(W)*125.28mm(H)		2.0
Resolution	1024*600 pixels		
Display color	16.7M	true color	007.5
Display angle of view	75/75/60/60(le	eft/right/up/down)	297.5
Contrast ratio	5	00:1	310.6
Backlight	J	LED	
Brightness	350	ocd/m²	
Backlight life	More than	30000 hours	
Touch panel	4 line precision resistance r	network (surface hardness 4H)	230.6
CPU	ARM RISC	32Bit 800MHz	
Storage	128MB NAND Flash Mem	nory+128MB DDR3 Memory	
RTC	Ві	ıilt-in	Kinco
Extensible memory	1 US	SB Host	
Print port	USB Hos	t/serial port	
Ethernet	None	10/100M self-adaption	
Program download	U disk	U disk/Ethernet	215
Communication port	COM1:RS	2/RS485/RS422 3485/RS422 2:RS232	54.9
Electrical specifications			
Input power supply	DC10.8V~DC28V, Built-in isolation power supply		217.5
Rated power	6W @24V DC		
Allowable loss of power		3ms	
Insulation resistance	Over 50MΩ @500V DC		
Hi-pot test	500 VAC 1 minute		
Structure specifications			
PCB	Exquisit	te spraying	<u> </u>
Shell material	Enginee	ring plastic	***************************************
Shape size		30*55 mm	5 000000
Cutout size		219 mm	
Weight	1.	.8Kg	
Environmental specifications			
Operating ambient temperature	-10° C ~ 50° C		
Operating ambient humidity	10% to 90% noncondensing		299
Storage ambient temperature	-20° C ~ 60° C		
Storage ambient humidity	10% to 90% noncondensing		1
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour		
Cooling mode	Natural air cooling		O Cut-out size
Product certification	0 1 1 1 1 1	115 11 (4060 00)	8
Panel protection grade	Conforming to IP65 certification(4208-93)		
CE authentication	EN61000-6-4:2007+A1	:2011, EN61000-6-2:2005	<u> </u>
Software		1/0.4	
Configuration software	Kinco DTools	V3.4 and above	

Note: G100 is replacement of MT4512T, G100E is replacement of MT4512TE. Programming of MT4000 can be used for Green series HMI after edited by DTools.

# Economy Type

**G** Series

### **G121E**

- Advanced platform : NXP industrial-grade CPU, supply more than 10 years
- industrial display: 12.1", 4:3 ratio, provides bigger display area, highlights, and clarity
- Rich in storage : support external SD card, usb flash drive, up to 256GB
- Perfect protection : built-in serial port isolation, power supply, enhance reliability



Model	G121E	Mechanical Dimensions (Unit:mm)
Performance specification		
Display size	12.1"TFT	215
Display area	246mm(W)*184.5mm(H)	
Resolution	800*600 pixels	_ <del></del>
Display color	65535 color	297.5
Display angle of view	80/80/65/75(left/right/up/down)	310.6
Contrast ratio	800:1	010.0
Backlight	LED	1
Brightness	400cd/m <sup>2</sup>	
Backlight life	50000 hours	φ.
Touch panel	4 line precision resistance network (surface hardness 4H)	530.6
CPU	ARM RISC 32Bit 800MHz	
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	Minco
RTC	Built-in	
Extensible memory	1 USB Host + 1 SD Card	
Print port	USB Host/serial port	
Ethernet	10/100M self-adaption	_ 215
Program download	USB Slave(Micro USB)/U disk/Ethernet	
	COM0:RS232/RS485/RS422	54.9
Communication port	COM1:RS485/RS422	4
	COM2:RS232	
Electrical specifications		
Input power supply	DC12V~DC28V, Built-in isolation power supply	217.5
Rated power	10.8W @24V DC	
Allowable loss of power	<3ms	
Insulation resistance	Over 50MΩ @500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specifications		
РСВ	Exquisite spraying	
Shell material	Engineering plastic	0
Shape size	350*260*54 mm	
Cutout size	340*250 mm	
Weight	2.2Kg	
Environmental specifications		
Operating ambient temperature	-10° C ∼ 55° C	
Operating ambient humidity	10% to 90% noncondensing	299
Storage ambient temperature	-20° C ∼ 60° C	
Storage ambient humidity	10% to 90% noncondensing	<b>A</b>
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	Cut-out size
Product certification		Cut-out size
Panel protection grade	Conforming to IP65 certification(4208-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	<b>+</b>
Software		
Configuration software	Kinco DTools V3.4 and above	
-		

Note: G121E is replacement of MT4620TE.

Programming of MT4000 can be used for Green series HMI after edited by DTools.



### GL043/GL043E

- Suitable for small space occasions
- Beautiful appearance, ultra-thin body
- High cost-effective



Model	GL043	GL043E	Mechanica	I Dimensions (Unit:mn	n)
Performance specification					
Display size	y size 4.3"TFT				
Display area	95.04mm(W)*53.86mm(H)				
Resolution	480*272 pixels			117.5	
Display color	16.7M true color				
Display angle of view	70/70/50/70(lef	t/right/up/down)	l-	132	
Contrast ratio	50	0:1	1		
Backlight	Lī	ED		GREEN SERIES -	
Brightness	450c	cd/m²	2		
Backlight life	More than 3	30000 hours	102		
Touch panel	4 line precision resistance no	etwork (surface hardness 4H)			
CPU	ARM RISC 3	2Bit 800MHz	ļ (t	Kinco	
Storage	128MB NAND Flash Memo	ory+128MB DDR3 Memory			
RTC	Bui	lt-in			
Extensible memory	No	one		_ 33	- → Include
Print port	Seria	l port			5.7 Include sealing ring
Ethernet	None	10/100M self-adaption			
Program download	USB Slave(Micro USB)/Serial port	USB Slave(Micro USB)/Serial port/Ethernet			
Communication port		/RS485/RS422 :RS232		915	
Electrical specifications			L		
Input power supply	DC10V~DC28V, Built-in	isolation power supply			
Rated power	2W @2	24V DC			
Allowable loss of power	<3	ims			
Insulation resistance	Over 50MΩ	2@500V DC	€		
Hi-pot test	500 VAC	1 minute			
Structure specifications			(		
PCB	None of	spraying		00000000	
Shell material		ing plastic		00000000	
Shape size		2*33 mm		00000000	
Cutout size	119*9	93 mm		⊕ T <sup>el-</sup> T <sup>†</sup> → ← 표 COMM/COM2	
Weight		1Kg	l		
Environmental specifications					
Operating ambient temperature	0° C ~	, 50° C		119	
Operating ambient humidity		noncondensing	_		
Storage ambient temperature		~ 60° C			
Storage ambient humidity	10% to 90% r	noncondensing			
Sine vibration test		X, Y, Z direction/hour	93	Cut-out size	
Cooling mode	Natural a	ir cooling			
Product certification					
Panel protection grade	Conforming to IP65 of	certification(4208-93)			
CE authentication	EN61000-6-4:2007+A1:	2011, EN61000-6-2:2005			
Software					
Configuration software	Kinco DTools	V3.3 and above			

Note: GL043 is replacement of MT4230T. GL043E is replacement of MT4230TE. Programming of MT4000 can be used for Green series HMI after edited by DTools.

Official UK & Ireland Distributor: Motion Control Products Ltd.

# Economy Type

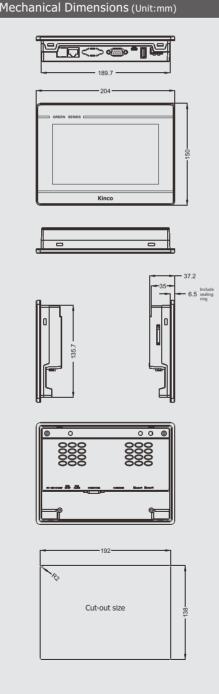


### **GL070/GL070E**

- Preferred model for general use
- A non-hollow mask is more effective against oil pollution
- Beautiful appearance, ultra-thin body
- High cost-effective



Model	GL070	GL070E	М	
Performance specification				
Display size	7"	TFT		
Display area	154.08mm(W)*85.92mm(H)			
Resolution	800*480 pixels			
Display color	16.7M true color			
Display angle of view	70/70/50/70(lef	t/right/up/down)		
Contrast ratio	50	0:1		
Backlight	LE	ED		
Brightness	2500	cd/m²		
Backlight life	More than 3	30000 hours		
Touch panel	4 line precision resistance ne	etwork (surface hardness 4H)		
CPU	ARM RISC 3	2Bit 800MHz		
Storage		ory+128MB DDR3 Memory		
RTC		lt-in		
Extensible memory	1 USE	B Host		
Print port	USB Host/	/Serial port		
Ethernet	None	10/100M self-adaption		
Program download	USB Slave(Micro USB)/U disk	USB Slave(Micro USB)/U disk/Ethernet		
Communication port		/RS485/RS422 :RS232		
Electrical specifications				
Input power supply	DC10V~DC28V			
Rated power	3.6W @24V DC			
Allowable loss of power	<3ms			
Insulation resistance	Over 50M Ω @500V DC			
Hi-pot test	500 VAC 1 minute			
Structure specifications				
PCB		spraying		
Shell material		ing plastic		
Shape size		0*37 mm		
Cutout size		38 mm		
Weight	0.5	5Kg		
Environmental specifications	00.6	500.6		
Operating ambient temperature		50° C		
Operating ambient humidity		noncondensing		
Storage ambient temperature		~ 60° C		
Storage ambient humidity		noncondensing		
Sine vibration test		X, Y, Z direction/hour		
Cooling mode	Natural a	ir cooling		
Product certification				
Panel protection grade		certification(4208-93)		
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005			
Software				
Configuration software	Kinco DTools \	V3.3 and above		



Note: GL070 is replacement of MT4434T. GL070E is replacement of MT4434TE.

Programming of MT4000 can be used for Green series HMI after edited by DTools.



### **GL100/GL100E**

- Preferred model for general use
- A non-hollow mask is more effective against oil pollution
- Beautiful appearance, ultra-thin body
- High cost-effective



Model	GL100	GL100E	Mechanical [	Dimensions (Unit:mm)
Performance specification	02100	022002	r recriamear i	Simensions (ome.min)
Display size	10.	1"TFT	T	0 0 1
Display area		/)*125.28mm(H)	_	
Resolution		600 pixels	\ <u>-</u>	258.9
Display color		true color		
Display angle of view		eft/right/up/down)	r=	280.3
Contrast ratio		00:1		
Backlight		LED	GREEN SI	ENES
Brightness	400	Ocd/m²		
Backlight life	More than	30000 hours	193.3	
Touch panel	4 line precision resistance r	network (surface hardness 4H)	1   1	
CPU	·	32Bit 800MHz		
Storage	128MB NAND Flash Mem	nory+128MB DDR3 Memory		Kinco
RTC	Ві	uilt-in		
Extensible memory	1 US	SB Host		<u>35.5</u> 5.5
Print port	USB Hos	t/Serial port	A-TA-	1
Ethernet	None	10/100M self-adaption		
Program download	USB Slave(Micro USB)/U disk	USB Slave(Micro USB)/U disk/Ethernet		
Communication port		2/RS485/RS422 2:RS232	0	
Electrical specifications			<u> </u>	· •
Input power supply	DC10\	/~DC28V		
Rated power	6W @	024V DC		
Allowable loss of power		3ms	4	
Insulation resistance	Over 50M	Ω@500V DC		
Hi-pot test	500 VA	C 1 minute	<u></u>	6 6
Structure specifications				
PCB		f spraying		
Shell material	_	ring plastic		
Shape size		93*36 mm		
Cutout size		180 mm		
Weight	0	.9Kg		
Environmental specifications	20.0	500.0		
Operating ambient temperature		~ 50° C	r=	261
Operating ambient humidity		noncondensing		
Storage ambient temperature		C ~ 60° C		
Storage ambient humidity		noncondensing		
Sine vibration test		, X, Y, Z direction/hour	180	Cut-out size
Cooling mode  Product contification	Natural	air cooling		
Product certification	Conforming to IDCE	contification (4200, 02)		
Panel protection grade CE authentication		certification(4208-93) :2011, EN61000-6-2:2005	<u> </u>	
Software	EN01000-0-4:200/+A1	.2011, EN01000-0-2:2005		
Configuration software	Vince DTeels	V3.3 and above		
Comiguration Software	KIIICU D 100IS	אסיים מוות מחחגר		

Note: GL100 is replacement of MT4532T. GL100E is replacement of MT4532TE. Programming of MT4000 can be used for Green series HMI after edited by DTools.

www.motioncontrolproducts.com

# **Economy Type**



10.4"

### **GL104E**

- Built-in isolated power supply to enhance reliability
- Industrial size 4:3, possessing greatful visual coordination
- Firm structure
- High cost-effective



Model	GL104E	Mechanical Dimensions (Unit:mm)
Performance specification		
Display size	10.4"TFT	215
Display area	211.20mm(W)*158.40mm(H)	
Resolution	800*600 pixels	
Display color	16.7M true color	297.5
Display angle of view	70/70/60/70(left/right/up/down)	310.6
Contrast ratio	500:1	
Backlight	LED	SHA DALL
Brightness	350cd/m <sup>2</sup>	
Backlight life	More than 30000 hours	900
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	ARM RISC 32Bit 800MHz	
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	Kinco
RTC	Built-in	
Extensible memory	1 USB Host	55.7
Print port	USB Host/Serial port	
Ethernet	10/100M self-adaption	
Program download	USB Slave(Type B)/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM2:RS232	277.2
Electrical specifications		
Input power supply	DC10.8V~DC28V, Built-in isolation power supply	
Rated power	8W @24V DC	<del>- (111111-1-11-1-11-11-11-11-11-11-11-11-1</del>
Allowable loss of power	<3ms	
Insulation resistance	Over 50M Ω @500V DC	215
Hi-pot test	500 VAC 1 minute	
Structure specifications		0 0
PCB	None of spraying	
Shell material	Engineering plastic	0
Shape size	310*230*56 mm	
Cutout size	299*219 mm	
Weight	1.715Kg	
Environmental specifications		<u> </u>
Operating ambient temperature	0° C ~ 50° C	
Operating ambient humidity	10% to 90% noncondensing	
Storage ambient temperature	-20° C ~ 60° C	†
Storage ambient humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s <sup>2</sup> , X, Y, Z direction/hour	© Cut out size
Cooling mode	Natural air cooling	Cut-out size
Product certification		
Panel protection grade	Conforming to IP65 certification(4208-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software		
Configuration software	Kinco DTools V3.3 and above	

Cut-out size

Note: GL104E is replacement of MT4513TE.

Programming of MT4000 can be used for Green series HMI after edited by DTools.

Official UK & Ireland Distributor: Motion Control Products Ltd.



### **GL150E**

- Preferred model for general use in 15 inch screen
- Built-in isolated power supply to enhance reliability
- Industrial size 4:3, possessing greatful visual coordination
- Firm structure

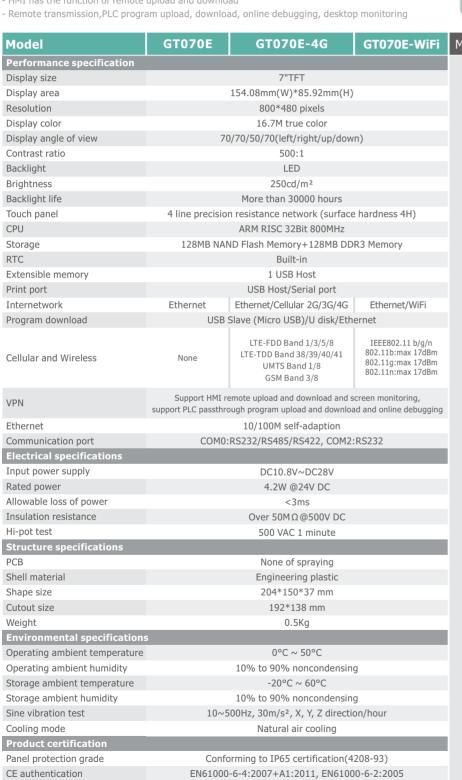


		Kinco
Model	GL150E	Mechanical Dimensions (Unit:mm)
Performance specification		
Display size	15"TFT	269
Display area	304.13mm(W)*228.10mm(H)	
Resolution	1024*768 pixels	382
Display color	65536 color	
Display angle of view	80/80/80/80(left/right/up/down)	
Contrast ratio	800:1	398
Backlight	LED	
Brightness	420cd/m <sup>2</sup>	
Backlight life	More than 50000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	588
CPU	ARM RISC 32Bit 800MHz	8
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in	
Extensible memory	1 USB Host	Kinco
Print port	USB Host/Serial port	
Ethernet	10/100M self-adaption	47
Program download	USB Slave(Micro USB)/U disk/Ethernet	30 - 7
Communication port	COM0:RS232/RS485/RS422 COM2:RS232	
Electrical specifications		
Input power supply	DC10.8V~DC28V, Built-in isolation power supply	
Rated power	16W @24V DC	
Allowable loss of power	<3ms	<del></del>
Insulation resistance	Over 50MΩ@500V DC	<u> </u>
Hi-pot test	500 VAC 1 minute	
Structure specifications		
PCB	None of spraying	
Shell material	Engineering plastic	
Shape size	398*298*47 mm	229
Cutout size	383*283 mm	
Weight	3Kg	
Environmental specifications		
Operating ambient temperature	-10° C ~ 55° C	303
Operating ambient humidity	10% to 90% noncondensing	
Storage ambient temperature	-20° C ~ 60° C	
Storage ambient humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	Cut-out size
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	Conforming to IP65 certification(4208-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software		
Configuration software	Kinco DTools V3.3 and above	

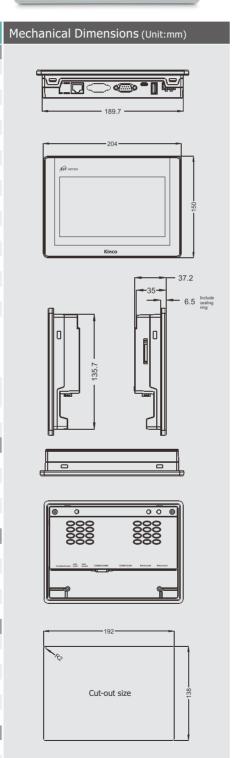


### GT070E / GT070E-4G / GT070E-WiFi

- Support Ethernet, built-in 4G & WiFi
- · Built-in Internet of Things function, support remote service
- HMI has the function of remote upload and download







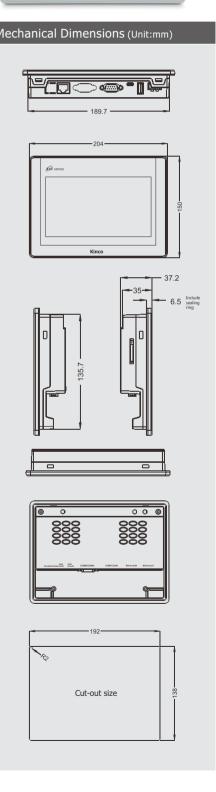


### GT070HE / GT070HE-4G / GT070HE-WiFi

- 7", HD Display, 16.77 Million true colors
- Support Ethernet, built-in 4G / WiFi
- Edge computing is supported

Model	GT070HE	GT070HE-4G	GT070GE-WiFi		
Performance specification					
Display size	7"TFT				
Display area	154.08mm(W)*85.92mm(H)				
Resolution		800*480 pixels			
Display color		16.7M true color			
Display angle of view	8!	5/85/85/85(left/right/up/dow	vn)		
Contrast ratio		500:1	,		
Backlight	LED				
Brightness		450cd/m <sup>2</sup>			
Backlight life		More than 30000 hours			
Touch panel	4 line precisio	n resistance network (surface	e hardness 4H)		
CPU CPU	Time precisio	ARM RISC 32Bit 800MHz	c naraness my		
Storage	128MB NA	ND Flash Memory+128MB DD	D2 Mamory		
RTC	TZOMID INAL	Built-in	/ICO PICITION Y		
Extensible memory		1 USB Host			
Print port	Eth a wash	USB Host/Serial port	Eth amat //A/:E:		
Internetwork	Ethernet	Ethernet/Cellular 2G/3G/4G	Ethernet/WiFi		
Program download	USB	Slave (Micro USB)/U disk/Eth	iernet		
Cellular and Wireless	None	LTE-FDD Band 1/3/5/8 LTE-TDD Band 38/39/40/41 UMTS Band 1/8 GSM Band 3/8	IEEE802.11 b/g/n 802.11b:max 17dBm 802.11g:max 17dBm 802.11n:max 17dBm		
VPN		emote upload and download and sough program upload and download			
Ethernet		1*10/100M self-adaption			
Communication port	COM0:	:RS232/RS485/RS422, COM2	:RS232		
Electrical specifications					
Input power supply		DC10.8V~DC28V			
Rated power		4.2W @24V DC			
Allowable loss of power		<3ms			
Insulation resistance		Over 50MΩ@500V DC			
Hi-pot test		500 VAC 1 minute			
Structure specifications		JUU VAC I IIIIIIULE			
PCB		None of spraying			
Shell material		Engineering plastic			
Shape size		204*150*37 mm			
		192*138 mm			
Cutout size					
Weight		0.5Kg			
Environmental specification		000 5000			
Operating ambient temperature		0°C ~ 50°C	_		
Operating ambient humidity		10% to 90% noncondensin	ig		
Storage ambient temperature		-20°C ~ 60°C			
Storage ambient humidity		10% to 90% noncondensin			
Sine vibration test	10~5	500Hz, 30m/s <sup>2</sup> , X, Y, Z directi	on/hour		
Cooling mode		Natural air cooling			
Product certification					
Panel protection grade		orming to IP65 certification(4			
CE authentication	EN61000	)-6-4:2007+A1:2011, EN6100	00-6-2:2005		





Software

Configuration software

Kinco DTools V3.5.1 and above

Configuration software

Kinco DTools V3.5.0 and above



### GT100E / GT100E-4G / GT100E-WiFi

- 10.1"HD display, 16.77M true color
- Support Ethernet, built-in 4G & WiFi
- Built-in Internet of Things function, support remote service
- Remote transmission, PLC program upload, download, online debugging, desktop monitoring



Model	GT100E	GT100E-4G	GT100E-WiFi		
Performance specification					
Display size		10.1"TFT			
Display area		222.72(W)x125.28(H)			
Resolution		1024*600 pixels			
Display color	16.7M true color				
Display angle of view	8!	85/85/85/85(left/right/up/down)			
Contrast ratio		500:1	,		
Backlight	LED				
Brightness	300cd/m <sup>2</sup>				
Backlight life	More than 30000 hours				
Touch panel	4 line precisio	n resistance network (surface	e hardness 4H)		
CPU		ARM RISC 32Bit 800MHz	,		
Storage	128MB NAI	ND Flash Memory+128MB DD	R3 Memory		
RTC	1201101101	Built-in	rio i icinory		
Extensible memory		1 USB Host			
Print port		USB Host/Serial port			
Internetwork	Ethernet	Ethernet/Cellular 2G/3G/4G	Ethernet/WiFi		
Program download		Slave (Micro USB)/U disk/Eth			
Frogram download	030	Slave (Micro OSD)/O disk/Edit	erriet		
Cellular and Wireless	None	LTE-FDD Band 1/3/5/8 LTE-TDD Band 38/39/40/41 UMTS Band 1/8 GSM Band 3/8	IEEE802.11 b/g/n 802.11b:max 17dBm 802.11g:max 17dBm 802.11g:max 17dBm 802.11n:max 17dBm		
VPN		emote upload and download and s ough program upload and downloa	5,		
Ethernet		10/100M self-adaption			
Communication port	COM0:RS232/RS485/RS422, COM2:RS232				
Electrical specifications					
Input power supply		DC10.8V~DC28V			
Rated power		7W @24V DC			
Allowable loss of power		<3ms			
Insulation resistance		Over 50MΩ@500V DC			
Hi-pot test		500 VAC 1 minute			
Structure specifications					
PCB		None of spraying			
Shell material		Engineering plastic			
Shape size		271*213*38 mm			
Cutout size		260*202 mm			
Weight		1.1Kg			
Environmental specifications					
Operating ambient temperature		0° C ~ 50° C			
Operating ambient humidity		10% to 90% noncondensin	a		
Storage ambient temperature		-20° C ~ 60° C	5		
Storage ambient humidity		10% to 90% noncondensin	a		
Sine vibration test	10~5	500Hz, 30m/s <sup>2</sup> , X, Y, Z direction			
Cooling mode	10	Natural air cooling	,		
Product certification		reaction and cooling			
Panel protection grade	Confe	orming to IP65 certification(4	208-93)		
CE authentication		0-6-4:2007+A1:2011, EN6100	,		
Software	ENGIOUG	7 0 7.2007 TAI.2011, EN0100	0 0-2.2003		
Software					

Kinco
chanical Dimensions (Unit:mm)
258.3
271.0 O
38.0 S Shoulding Seathing shall be seather shall be seathing shall
11
00000 00000 00000 00000 00000 00000 00000 00000
Cut-out size

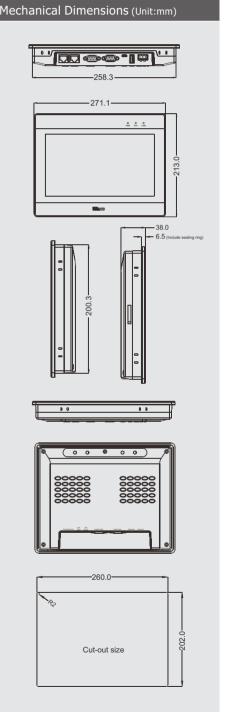


### GT100E2

- 10.1"HD display, 16.77M true color
- Dual Ethernet port, 3 separated COM Port
- Mainboard high technology protection
- Built-in power supply isolation, Powerful script function



- built-iii power supply isolation, i	rowerrar script function	
Model	GT100E2	Med
Performance specification		
Display size	10.1"TFT	
Display area	222.72(W)x125.28(H)	
Resolution	1024*600 pixels	
Display color	16.7M true color	
Display angle of view	70/70/60/60(left/right/up/down)	
Contrast ratio	500:1	
Backlight	LED	
Brightness	350cd/m <sup>2</sup>	
Backlight life	More than 30000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	ARM RISC 32Bit 800MHz	
Storage	256MB NAND Flash Memory+256MB DDR3 Memory	
RTC	Built-in	
Extensible memory	1 USB Host	
Print port	USB Slave (Micro USB)/USB Host/Serial port	
Network access	2 * Ethernet	
Program download	USB Slave (Micro USB)/USB/Ethernet	
VPN	Support HMI remote upload and download and screen monitoring, support PLC passthrough program upload, download and monitoring	
Ethernet	2* 10/100M self-adaption port	
Communication port	COM0:RS232/RS485/RS422, COM1:RS485/RS422, COM2:RS232	
Electrical specifications	00.1011.02.02,1.00.102,1.00.122,000.1211.00.102,1.00.122,000.1211.02.02	
Input power supply	DC10.8V~DC28V	
Rated power	5W @24V DC	
Allowable loss of power	<3ms	
Insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specifications	500 Free Limitate	
PCB	Exquisite spraying	1
Shell material	Engineering plastic	
Shape size	271*213*38 mm	
Cutout size	260*202 mm	
Weight	1.1Kg	
Environmental specifications		
Operating ambient temperature	0° C ∼ 50° C	
Operating ambient humidity	10% to 90% noncondensing	
Storage ambient temperature	-20° C ~ 60° C	
Storage ambient humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode Product certification	Natural air cooling	
	Conforming to IDSE contification (4200, 02)	
Panel protection grade	Conforming to IP65 certification(4208-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software	Vince DTeele V2 F 2 and share	
Configuration software	Kinco DTools V3.5.2 and above	



Configuration software

Kinco DTools V3.5.1 and above



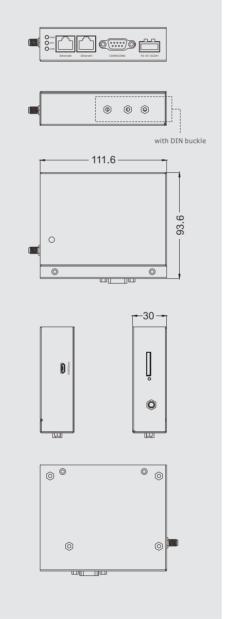
### GW01 / GW01-4G / GW01-WiFi

- Freescale industrial-grade CPU, 800MHz processor, 128MB memory
- Dual-port ethernet + COM, can connect hundreds of mainstream controllers, no need to change the existing architecture
- Easy configuration, easy to achieve data mapping, the device data transfer to the cloud
- Free choice of wireless or 4G, suitable for different demand
- Small size, easy to install (DIN rail installation)



Mechanical Dimensions (Unit:mm)

Model	GW01	GW01-4G	GW01-WiFi	
Performance specification				
CPU	ARM RISC 32Bit 800MHz			
Storage	128MB NAND Flash Memory+128MB DDR3 Memory			
RTC	Built-in			
Ethernet	2* 10/100M self-adaption			
WiFi	None	None	2.4GHz WiFi	
4G	None	Built-in	None	
USB		1*USB Slave (Micro USB)		
Program download	USB Slave(Micro USB)/ Ethernet	USB Slave(Micro USB)/ Ethernet	USB Slave(Micro USB)/ Ethernet/WiFi	
Cellular and Wireless	None	LTE-FDD Band 1/3/5/8 LTE-TDD Band 38/39/40/41 UMTS Band 1/8 GSM Band 3/8	IEEE802.11 b/g/n 802.11b:max 17dBm 802.11g:max 17dBm 802.11n:max 17dBm	
VPN		Support box remote upload and download and online monitoring, support PLC passthrough program upload and download and online debuggin		
Communication port	COM0:F	RS232/RS485/RS422, COM2	2:RS232	
Electrical specifications				
Input power supply	DC12V~DC28V, Built-in isolation power supply			
Rated power		1.5W		
Allowable loss of power	<3ms			
Insulation resistance	Over 50MΩ@500V DC			
Hi-pot test	500 VAC 1 minute			
Structure specifications				
PCB	None of spraying			
Shell color	Black			
Shell material	Metallic			
Shape size	111.6*93.6*30 mm			
Installation	DIN-rail mounting (35mm)			
Weight		0.31Kg		
<b>Environmental specification</b>	s			
Operating ambient temperature		-10° C ~ 55° C		
Operating ambient humidity	109	% to 90% noncondensing		
Storage ambient temperature		-20° C ~ 60° C		
Storage ambient humidity	109	% to 90% noncondensing		
Sine vibration test	10~500Hz	z, 30m/s², X, Y, Z direction,	/hour	
Cooling mode		Natural air cooling		
Product certification				
Panel protection grade		Conforming to IP20		
CE authentication	EN61000-6-4:	2007+A1:2011, EN61000-	6-2:2005	
	E.101000 0 1.2007 171.2011, EN01000 0 2.2003			
Software				



# FUTURE Series industrial HMI for **High-end equipment industry**

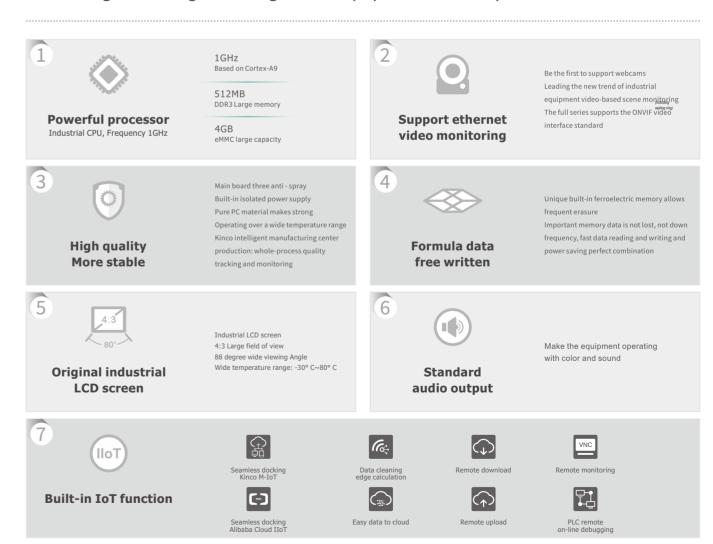
Kinco FUTURE series industrial HMI that balances the steady demands of industry with the enjoyment of new technologies.

Strict material selection, innovative design, adhere to 10 years of ultra-long life cycle;

Produced by Kinco intelligent manufacturing Center, the whole process of material and manufacturing can be traced to ensure high quality. Enjoy the new features of DTools configuration software; With the industry leading edge to create high-end equipment preferred products.



# 7 leading advantages for high-end equipment industry



**FUTURE Series** 

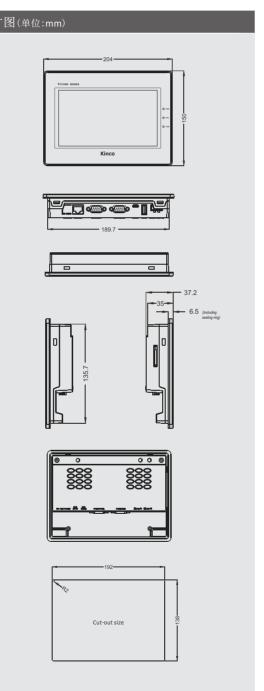
## **FUTURE Series**

### **F070E**

- Cortex-A9 industrial-grade CPU, clocked at 1GHz, and memory up to 512M.
- 7", high brightness and high resolution display
- Built-in ferroelectric memory, supporting matching data without erasing a limited  $\,$  number of times.
- Three anti-spraying + isolated power supply to enhance reliability.
- Support network camera connection, real-time dynamic control.
- A new generation of Kinco DTools configuration software, powerful function, simple and easy



Model	F070E	尺寸图(单位:mm)
Performance specification		
Display size	7 " TFT	r
Resolution	800*480 pixels	
Display color	16.7M true color	FUTURE SERIES
Backlight	LED	
Brightness	400cd/m <sup>2</sup>	
Backlight life	More than 30000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	32Bit RISC Cortex-A9 1GHz	
Storage	512MB DDR3 + 8GB eMMC	
RTC	Built-in + 32KB	
Extensible memory	USB Host	
Print port	USB/serial port	
Ethernet	1*10/100M self-adaption	4
Program download	Serial port/USB/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232	
Audio output	1*Audio output	
Extended interface	None	<del>[</del> -1
Electrical specifications		o  b
Input power supply	DC12V~DC28V, Built-in isolation power supply	
Rated power	5W	35.7
Allowable loss of power	<3ms	i ∭
Insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specifications		u
РСВ	Exquisite spraying	( <del></del>
Shell color	Light gray	0 0
Shell material	Engineering plastic	
Shape size	204*150*37.2 mm	000
Cutout size	192*138 mm	A A
Weight	0.57Kg	L
Environmental specifications	<u> </u>	
Operating ambient temperature	-10° C ∼ 55° C	
Operating ambient humidity	10% to 90% noncondensing	Γ-
Storage ambient temperature	-20° C ~ 60° C	Po Po
Storage ambient humidity	10% to 90% noncondensing	70
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	Conforming to IP65	
CE authentication	Conforming to IFOS	
Software	Comorning to CL	
porcware		



### **F080E**

- Cortex-A9 industrial-grade CPU, clocked at 1GHz, and memory up to 512M.
- 8 ", high brightness and high resolution display, 4:3 business size.
- Built-in ferroelectric memory, supporting matching data without erasing a limited number of times.
- Three anti-spraying + isolated power supply to enhance reliability.
- SD card expansion storage space.
- Support network camera connection, real-time dynamic control.
- Support MPI 187.5K.



Model	F080E	М
Performance specification		
Display size	8 " TFT	
Resolution	800*600 pixels	
Display color	16.7M true color	
Backlight	LED	
Brightness	250cd/m <sup>2</sup>	
Backlight life	More than 30000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	32Bit RISC Cortex-A9 1GHz	
Storage	512MB DDR3 + 4GB eMMC	
RTC	Built-in + 32KB	
Extensible memory	2 USB Host + 1SD Card	
Print port	USB Host/serial port	
Ethernet	10/100M self-adaption	
Program download	U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232	
Audio output	1*Audio output	
Extended interface	None	
Electrical specifications		
Input power supply	DC12V~DC28V, Built-in isolation power supply	1
Rated power	8W @24V DC	
Allowable loss of power	<3ms	
Insulation resistance	Over 50M Ω @500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specifications		
PCB	Exquisite spraying	
Shell color	Beige white	
Shell material	Engineering plastic	
Shape size	235*172*57.9 mm	
Cutout size	224*161 mm	
Weight	1.3Kg	
Environmental specifications	1.51(g	
Operating ambient temperature	-10° C ∼ 55° C	J
Operating ambient humidity	10% to 90% noncondensing	
Storage ambient temperature	-20° C ~ 60° C	
Storage ambient humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification	Natural all Cooling	
	Conforming to IP65 certification(4208-93)	
Panel protection grade	EN61000-6-4:2007+A1:2011 EN61000 6 2:2005	
CE authentication Software	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	

Mechanical Dimensions (Unit:mm)
235
Forum stores
4.
<u>Kinco</u>
222.5
143
57.9
159.5
224
© Cut-out size

**FUTURE Series** 

## **FUTURE Series**

# F104E/F104E-CAN

- Cortex-A9 industrial-grade CPU, clocked at 1GHz, and memory up to 512M;
- 10.4 ", high brightness and high resolution display, 4: 3 business size;
- Built-in ferroelectric memory, supporting matching data without erasing a limited number of times;
- Three anti-spraying + isolated power supply to enhance reliability;
- SD card expansion storage space;
- Support network camera connection, real-time dynamic control;
- Support MPI 187.5K.



Display size  10.4 * TFT Resolution  1024*768 pixels  Display color  16.7M true color  Backlight  LED  Brightness  450cd/m²  Backlight life  More than 50000 hours  Touch panel  4 line precision resistance network (surface harmoses 4th)  CPU  33BR RISC Cortex A9 Lifetz  Storage  512MB DDR3 + 4GB eMMC  RTC  Bullt-in + 32KB  Extensible memory  2 USB Host + 15D Card  Print port  USB Host + 15D Card  Print port  USB Host + 15D Card  Print port  Udisk/Ethernet  10/100M self-adaption  Program download  Udisk/Ethernet  COMM: RS232/RS488/RS422  COM2: RS232/RS488/RS422  COM2	Model	F104E	F104E-CAN	尺寸图(单位:mm)
Display size 10.4* Tel 1 Resolution 10.24* 768 pixels Display color 16.7M true color 17.7M	Performance specification			
Display color  16.7M true color  Backlight  LED  Backlight  LED  Backlight LED  Brightness  450cd/m²  Backlight Life  More than 50000 hours  Touch panel 4 line precision resistance network (surface handness 4H)  CPU 32Bit RISC Cortex-49 1GHz  Storage 512MB DDR3 + 4GB eMMC  RTC  Built-in + 32MB  Extensible memory 2 USB Host + 1SD Card  Print port  LUSB Hosty-serial port  Ethernet 10/100M self-adaption  Program download  U disk/Ethernet  COM0:RS232/RS48S/RS422  COM1:RS232/RS48S/RS422	Display size	10.4 " TFT		310.6
Backlight LED Brightness 450cd/m² Backlight life More than 50000 hours Touch panel 4 line precision resistance network (surface hardness 4H) CPU 32Bit RISC Cortex-A9 1GHz Storage 512MB DDR3 + 4GB eMMC RTC Bull-in + 32KB Extensible memory 2 USB Host + 15D Card Print port USB Host serial port Ethernet 10/100M self-adaption Program download U disk/Ethernet COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 Audio output 1*Audio output Extended interface None 1*CANopen Etectrical specifications Input power supply DC12V~DC28V, Built-in isolation power supply Rated power <3ms Allowable loss of power <3ms Allowable loss of power <3ms Insulation resistance Over 50M Q @500V DC Hi-pot test 500 VAC 1 minute  Structure specifications PCB Exquisite spraying Shell color Beige white Shell material Engineering plastic Shape size 310.6*230.6*55.7 mm Weight 1.7Kg Environmental specifications PCB Sequipment temperature -10° C ~ 50° C Operating ambient temperature -10° C ~ 60° C Operating ambient t	Resolution	1024*76	8 pixels	Pullines savies
Brightness  4 50cd/m²  More than 50000 hours  Touch panel  4 line precision resistance network (surface hardness 4+)  CPU  3 2Bit RISC Cortex-A9 1GHz  Storage  5 12MB DDR3 + 4GB eMMC  Builli-in + 3 2KB  Extensible memory  2 USB Host + 1SD Card  USB Host/Serial port  Ethernet  10/100M self-adaption  Program download  U disk/Ethernet  COMI:RS232/RS485/RS422  COM2:RS232/RS485/RS422  COM2:RS	Display color	16.7M tr	ue color	
Backlight life More than 50000 hours Touch panel 4 line precision resistance network (surface hardness 4th) CPU 328it RISC Cortex-A9 1GHz Storage 512MB DDR3 + 4GB eMMC RTC Built-in + 32KB Extensible memory 2 USB Host + 15D Card USB Host / 15D Card Print port USB Host / 15D Card Udisk/Ethernet COM0:RS323/RS485/RS422 COM1:RS323/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 Audio output 1*Audio output 2 None 1*CANopen Electrical specifications Input power supply DC12V~DC28V, Built-in isolation power supply Rated power 1*2W @24V DC Allowable loss of power Ams Asted power 1*2W @24V DC Allowable loss of power 1*Surday and power supply Rated power 0ver 500 VAC 1 minute Structure specifications PCB Exquisite spraying Shell color Beige white Shell material Engineering plastic Shape size 310.6*230.6*55.7 mm Cutout size 299*219 mm Weight 1.7Kg Environmental specifications Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -10° C ~ 50° C Storage ambient temperature -10° C ~ 60° C Storage ambient temperature -10° C ~ 60° C Storage ambient temperature -10° C ~ 60° C Coulout size Cut-out size Cut-out size Cut-out size Cut-out size Cut-out size	Backlight	LE	:D	
Backlight life More than 50000 hours Touch panel 4 line precision resistance network (surface hardness 4th) CPU 328it RISC Cortex-A9 1GHz Storage 512MB DDR3 + 4GB eMMC RTC Built-in + 32KB Extensible memory 2 USB Host + 15D Card USB Host / 15D Card Print port USB Host / 15D Card Udisk/Ethernet COM0:RS323/RS485/RS422 COM1:RS323/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 Audio output 1*Audio output 2 None 1*CANopen Electrical specifications Input power supply DC12V~DC28V, Built-in isolation power supply Rated power 1*2W @24V DC Allowable loss of power Ams Asted power 1*2W @24V DC Allowable loss of power 1*Surday and power supply Rated power 0ver 500 VAC 1 minute Structure specifications PCB Exquisite spraying Shell color Beige white Shell material Engineering plastic Shape size 310.6*230.6*55.7 mm Cutout size 299*219 mm Weight 1.7Kg Environmental specifications Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -10° C ~ 50° C Storage ambient temperature -10° C ~ 60° C Storage ambient temperature -10° C ~ 60° C Storage ambient temperature -10° C ~ 60° C Coulout size Cut-out size Cut-out size Cut-out size Cut-out size Cut-out size	Brightness	450cc	d/m²	9.000
Storage 512MB DDR3 + 408 eMMC RTC Built-in + 32KB Extensible memory 2 USB Host + 1SD Card Print port USB Host/serial port Ethernet 10/100M self-adaption Program download U disk/Ethernet COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS	Backlight life	More than 5	0000 hours	
Storage 512MB DDR3 + 4GR eMMC RTC Built-in + 32KB Extensible memory 2 USB Host + 1SD Card Print port USB Host/serial port Ethernet 10/100M self-adaption U disk/Ethernet COMD:R5232/R5468/R5422 COM1:R5232/R5468/R5422 COM2:R5232/R5468/R5422 COM2:R5232/R5422 COM2:R5232/R5422 COM2:R5232/R548/R5422 COM2:R5232/R5422 COM2:R5232/R5422 COM2:R5232/R548/R5422 COM2:R5232/R5422 COM2:R5232/R548/R5422 COM2:R5232/R5422 COM2:R5232/R548/R5422 COM2:R5232/R5422 COM2:R5232/R548/R5422 COM2:R5232/R542 COM2:R5232/R548/R5422 COM2:R5232/R548/R5422 COM2:R5232/R548/R5422 COM2:R5232/R548/R5422 COM2:R5232/R548/R5422 COM2:R5232/R548/R5	Touch panel	4 line precision resistance	network (surface hardness 4H)	
Extensible memory 2 USB Host + 1SD Card Print port USB Host + 1SD Card Print port USB Host serial port Ethernet 10/100M self-adaption Program download U disk/Ethernet COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232/RS485/RS422 COM2:RS232 Addio output 1*Audio output Extended interface None 1*CANopen Electrical specifications Input power supply DC12V~DC28V, Built-in isolation power supply Rated power 2W @24V DC Allowable loss of power - 3ms Insulation resistance Over 50M0@500V DC Hi-jot test 500 VAC 1 minute Structure specifications PCB Exquisite spraying Shell color Beige white Shell material Engineering plastic Shape size 310.6*230.6*55.7 mm Cutout size 299*219 mm Weight 1.7Kg Environmental specifications Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -20° C ~ 60° C Storage ambient humidity 10% to 90% noncondensing Storage ambient temperature -20° C ~ 60° C Storage ambient humidity 10% to 90% noncondensing Sine vibration test 10~500Hz, 30m/s², X, Y, Z direction/hour Cooling mode Natural air cooling Product certification Panel protection grade Conforming to IP65 certification(4208-93) CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005 Software	CPU	32Bit RISC Co	rtex-A9 1GHz	Kinco
Extensible memory  2 USB Host + 1SD Card  USB Host + ISD Card  Print port  USB Host + ISD Card  Print port  Ethernet  10/100M self-adaption  Program download  COM0:RS232/RS485/RS422  COM1:RS232/RS485/RS422  COM2:RS232  Audio output  Extended interface  None  1*CANopen  Electrical specifications  Input power supply  Rated power  12W @24V DC  Allowable loss of power  Allowable loss of power  Allowable loss of power  Allowable loss of power  Structure specifications  PCB  Exquisite spraying  Shell color  Beige white  Shell material  Engineering plastic  Shape size  310.6*230.6*55.7 mm  Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  Operating ambient temperature  -10° C ~ 50° C  Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient temperature  -20° C ~ 60° C  Storage ambient temperature  Natural air cooling  Product certification  Product certification  ENG1000-6-4:2007+A1:2011, ENG1000-6-2:2005  Software	Storage	512MB DDR3	+ 4GB eMMC	our.
Print port Ethernet 10/100M self-adaption Program download U disk/Ethernet COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232 Audio output 1*Audio output Extended interface None 1*CANopen Electrical specifications Input power supply Rated power 12W @24V DC Allowable loss of power 3ms Insulation resistance Over 50M Q ©500V DC Hi-pot test 500 VAC 1 minute Structure specifications PCB Exquisite spraying Shell color Beige white Shell material Engineering plastic Shape size 310.6*230.6*55.7 mm Cutout size 299*219 mm Weight 1.7Kg Environmental specifications Operating ambient temperature Operating ambient temperature 10% C ~ 50° C Operating ambient temperature 10% to 90% noncondensing Storage ambient themperature 10% C ~ 50° C Coperating ambient temperature 10% to 90% noncondensing Storage ambient themperature 10% C ~ 50° C Coperating ambient temperature 10% C ~ 50° C Coperating ambient thumidity 10% to 90% noncondensing Storage ambient temperature 10~C ~ 50° C Cooling mode Natural air cooling Product certification Panel protection grade Conforming to IP65 certification(4208-93) CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005 Software	RTC	Built-in	+ 32KB	215
Print port USB Host/serial port Ethernet 10/100M self-adaption Program download U disk/Ethernet  COM0:RS232/RS485/RS422 CCM1:RS232/RS485/RS422 CCM2:RS232 Audio output 1*Audio output 1*Audio output Extended interface None 1*CANopen Electrical specifications Input power supply Rated power 12W @24V DC Allowable loss of power 12W @24V DC Allowable loss of power 4 ams Insulation resistance Over 50M 0:500V DC Hi-pot test 500 VAC 1 minute  Structure specifications PCB Shell color Beige white Shell color Beige white Shell material Engineering plastic Shape size 310.6*230.6*55.7 mm Cutout size 299*219 mm Weight 1.7Kg Environmental specifications Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -10° C ~ 60° C Storage ambient humidity 10% to 90% noncondensing Product certification Natural air cooling Product certification Product certification Product certification EN61000-6-4:2007+A1:2011, EN61000-6-2:2005 Software	Extensible memory	2 USB Host	+ 1SD Card	
Ethernet 10/100M self-adaption Program download U disk/Ethernet  COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232 Audio output 1*Audio output Extended interface None 1*CANopen Electrical specifications Input power supply DC12V~DC28V, Built-in isolation power supply Rated power 12W @24V DC Allowable loss of power <a assistance"="" href="amount of the property of th&lt;/td&gt;&lt;td&gt;Print port&lt;/td&gt;&lt;td&gt;USB Host/&lt;/td&gt;&lt;td&gt;serial port&lt;/td&gt;&lt;td&gt;* * * * * * * * * * * * * * * * * * * *&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232 Audio output  Extended interface  None  1*Audio output  Extended interface  None  1*CANopen  Electrical specifications Input power supply Rated power  12W @24V DC  Allowable loss of power  -3ms Insulation resistance  Over 50MΩ@500V DC  Hi-pot test  500 VAC 1 minute  Structure specifications  PCB  Exquisite spraying Shell color  Beige white Shall color  Beige white Shall material  Engineering plastic Shape size  310.6*230.6*257.7 mm Cutout size  299*219 mm  Weight  1.7kg  Environmental specifications  Operating ambient temperature  -10° C ~ 50° C  Operating ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing Shorage ambient humidity  110~500Hz, 30m/s² x, Y, Z direction/hour Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93) CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software&lt;/td&gt;&lt;td&gt;Ethernet&lt;/td&gt;&lt;td&gt;10/100M se&lt;/td&gt;&lt;td&gt;lf-adaption&lt;/td&gt;&lt;td&gt;297.5&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Communication port  COM1:RS232/RS485/RS422 COM2:RS232  Audio output  Extended interface  None  I*Audio output  Extended interface  None  I*CANopen  Electrical specifications  Input power supply  DC12V~DC28V, Built-in isolation power supply Rated power  Allowable loss of power  &lt; 3ms  Insulation resistance  Over 50MΩ@500V DC  Hi-pot test  Structure specifications  PCB  Exquisite spraying Shell color  Beige white Shell material  Engineering plastic Shape size  310.6*230.6*55.7 mm  Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  -10° C ~ 50° C  Operating ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software&lt;/td&gt;&lt;td&gt;Program download&lt;/td&gt;&lt;td&gt;U disk/E&lt;/td&gt;&lt;td&gt;thernet&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Extended interface None 1*CANopen  Electrical specifications  Input power supply DC12V~DC28V, Built-in isolation power supply Rated power 12W @24V DC Allowable loss of power 3ms Insulation resistance Over 50M Ω @500V DC Hi-pot test 500 VAC 1 minute  Structure specifications PCB Exquisite spraying Shell color Beige white Shape size 310.6*230.6*55.7 mm Cutout size 299*219 mm Weight 1.7Kg  Environmental specifications Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -20° C ~ 60° C Storage ambient temperature -20° C ~ 60° C Storage ambient temperature 10~500Hz, 30m/s², X, Y, Z direction/hour Cooling mode Natural air cooling Product certification Panel protection grade Conforming to IP65 certification(4208-93) CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005 Software&lt;/td&gt;&lt;td&gt;Communication port&lt;/td&gt;&lt;td&gt;COM1:RS232/&lt;/td&gt;&lt;td&gt;RS485/RS422&lt;/td&gt;&lt;td&gt;215&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Extended interface None  1*CANopen  Electrical specifications  Input power supply Rated power  12W @24V DC  Allowable loss of power  -3ms  Insulation resistance Over 50MΩ@500V DC Hi-pot test 500 VAC 1 minute  Structure specifications  PCB Exquisite spraying Shell color Beige white Shell material Engineering plastic Shape size 310.6*230.6*55.7 mm  Cutout size 299*219 mm  Weight 1.7Kg  Environmental specifications  Operating ambient temperature -10° C ~ 50° C Operating ambient temperature -20° C ~ 60° C Storage ambient humidity 10% to 90% noncondensing Storage ambient temperature -20° C ~ 60° C Storage ambient humidity 10% to 90% noncondensing Storage ambient temperature -20° C ~ 60° C Storage ambient humidity 10% to 90% noncondensing Storage ambient temperature -20° C ~ 60° C Storage ambient temperature -20° C ~ 60° C&lt;/td&gt;&lt;td&gt;Audio output&lt;/td&gt;&lt;td&gt;1*Audio&lt;/td&gt;&lt;td&gt;output&lt;/td&gt;&lt;td&gt;55.7&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Input power supply Rated power  12W @24V DC  Allowable loss of power  Cover 50M Ω @500V DC  Hi-pot test  Structure specifications  PCB  Exquisite spraying Shell color Shell color Shell material Shape size Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  -10° C ~ 50° C  Operating ambient temperature  -20° C ~ 60° C  Storage ambient thumidity 10% to 90% noncondensing Storage ambient thumidity 10% to 90% noncondensing Sine vibration test 10~500Hz, 30m/s², X, Y, Z direction/hour Cooling mode Natural air cooling  Product certification  Panel protection grade Conforming to IP65 certification(4208-93) CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software&lt;/td&gt;&lt;td&gt;Extended interface&lt;/td&gt;&lt;td&gt;None&lt;/td&gt;&lt;td&gt;1*CANopen&lt;/td&gt;&lt;td&gt;7.4 fecting subgra&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Rated power  12W @24V DC  Allowable loss of power  &lt;a href=">Assistance</a> Over 50M Ω @500V DC  Hi-pot test  500 VAC 1 minute  Structure specifications  PCB  Exquisite spraying Shell color  Beige white Shell material  Engineering plastic Shape size  310.6*230.6*55.7 mm  Cutout size  299*219 mm  1.7Kg  Environmental specifications  Operating ambient temperature  -10° C ~ 50° C  Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient temperature  -20° C ~ 60° C  Storage ambient temperature  -20° C ~ 60° C  Storage ambient temperature  -10° C ~ 50° C  Operating ambient temperature  -10° C ~ 60° C  Storage ambient temperature  -10° C ~ 50° C  Operating ambient temperature  -10° C ~ 50° C  Op	Electrical specifications			
Allowable loss of power  Allowable loss of power  Insulation resistance  Over 50MΩ @500V DC  Hi-pot test  Sou VAC 1 minute  Structure specifications  PCB  Exquisite spraying  Shell color  Beige white  Engineering plastic  Shape size  310.6*230.6*55.7 mm  Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  Operating ambient temperature  -20° C ~ 50° C  Operating ambient temperature  -20° C ~ 60° C  Storage ambient temperature  -20° C ~ 60° C  Storage ambient temperature  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Input power supply	DC12V~DC28V, Built-in	isolation power supply	
Insulation resistance  Over 50M Ω ⊚ 500 V D C  Hi-pot test  500 V A C 1 minute  Structure specifications  PCB  Exquisite spraying  Shell color  Beige white  Shell material  Engineering plastic  Shape size  310.6*230.6*55.7 mm  Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  Operating ambient temperature  -20° C ~ 50° C  Operating ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Rated power	12W @2	24V DC	
Structure specifications  PCB Exquisite spraying  Shell color Beige white  Shell material Engineering plastic  Shape size 310.6*230.6*55.7 mm  Cutout size 299*219 mm  Weight 1.7Kg  Environmental specifications  Operating ambient temperature -10° C ~ 50° C  Operating ambient humidity 10% to 90% noncondensing  Storage ambient humidity 10% to 90% noncondensing  Storage ambient humidity 10% to 90% noncondensing  Storage ambient humidity 10% to 90% noncondensing  Sine vibration test 10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode Natural air cooling  Product certification  Panel protection grade Conforming to IP65 certification(4208-93)  CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Allowable loss of power	<31	ms	
Structure specifications  PCB Exquisite spraying  Shell color Beige white  Shell material Engineering plastic  Shape size 310.6*230.6*55.7 mm  Cutout size 299*219 mm  Weight 1.7Kg  Environmental specifications  Operating ambient temperature -10° C ~ 50° C  Operating ambient humidity 10% to 90% noncondensing  Storage ambient humidity 10% to 90% noncondensing  Storage ambient humidity 10% to 90% noncondensing  Storage ambient humidity 10% to 90% noncondensing  Sine vibration test 10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode Natural air cooling  Product certification  Panel protection grade Conforming to IP65 certification(4208-93)  CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Insulation resistance	Over 50MΩ	@500V DC	
PCB Exquisite spraying Shell color Beige white Shell material Engineering plastic Shape size 310.6*230.6*55.7 mm Cutout size 299*219 mm Weight 1.7Kg  Environmental specifications Operating ambient temperature -10° C ~ 50° C Operating ambient humidity 10% to 90% noncondensing Storage ambient humidity 10% to 90% noncondensing Storage ambient humidity 10% to 90% noncondensing Sine vibration test 10~500Hz, 30m/s², X, Y, Z direction/hour Cooling mode Natural air cooling Product certification Panel protection grade Conforming to IP65 certification(4208-93) CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005 Software	Hi-pot test	500 VAC	1 minute	
Shell color  Beige white Shell material  Engineering plastic Shape size  310.6*230.6*55.7 mm  Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  Operating ambient humidity  10% to 90% noncondensing Storage ambient humidity  10% to 90% noncondensing Storage ambient humidity  10% to 90% noncondensing Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Structure specifications			
Shell material  Engineering plastic Shape size  310.6*230.6*55.7 mm  Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	PCB	Exquisite	spraying	
Shell material  Engineering plastic Shape size  310.6*230.6*55.7 mm  Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  -10° C ~ 50° C  Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Shell color	Beige	white	30000
Cutout size  299*219 mm  Weight  1.7Kg  Environmental specifications  Operating ambient temperature  -10° C ~ 50° C  Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Shell material	Engineeri	ng plastic	
Weight  1.7Kg  Environmental specifications  Operating ambient temperature  Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Shape size	310.6*230.	6*55.7 mm	P 00000
Environmental specifications  Operating ambient temperature  Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Cutout size	299*21	19 mm	
Operating ambient temperature  -10° C ~ 50° C  Operating ambient humidity  10% to 90% noncondensing  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software			Kg	
Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Environmental specifications			0 0
Operating ambient humidity  10% to 90% noncondensing  Storage ambient temperature  -20° C ~ 60° C  Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Operating ambient temperature	-10° C /	~ 50° C	299
Storage ambient humidity  10% to 90% noncondensing  Sine vibration test  10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Operating ambient humidity	10% to 90% n	oncondensing	
Sine vibration test 10~500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode Natural air cooling  Product certification  Panel protection grade Conforming to IP65 certification(4208-93)  CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software		-20° C /	~ 60° C	
Cooling mode Natural air cooling  Product certification  Panel protection grade Conforming to IP65 certification(4208-93)  CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Storage ambient humidity	10% to 90% n	oncondensing	
Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208-93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Sine vibration test	10~500Hz, 30m/s <sup>2</sup> , )	K, Y, Z direction/hour	တ္ Cut-out size
Panel protection grade Conforming to IP65 certification(4208-93)  CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software		Natural a	ir cooling	
CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Product certification			
Software	Panel protection grade			<u> </u>
	CE authentication	EN61000-6-4:2007+A1:2	2011, EN61000-6-2:2005	
Configuration software Kinco DTools V3.4 and above				
	Configuration software	Kinco DTools V	3.4 and above	

### **F150E**

- Cortex-A9 industrial-grade CPU, clocked at 1GHz, and memory up to 512M.
- 15 ", high brightness and high resolution display, 4:3 business size.
- Built-in ferroelectric memory, supporting matching data without erasing a limited number of times.
- SD card expansion storage space.
- Support network camera connection, real-time dynamic control.
- Support MPI 187.5K.



Model	F150E	
Performance specification		
Display size	15 " TFT	
Resolution	1024*768 pixels	
Display color	16.7M true color	
Backlight	LED	
Brightness	300cd/m <sup>2</sup>	
Backlight life	More than 50000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	32Bit RISC Cortex-A9 1GHz	
Storage	512MB DDR3 + 4GB eMMC	
RTC	Built-in + 32KB	
Extensible memory	2 USB Host + 1SD Card	
Print port	USB Host/serial port	
Ethernet	10/100M self-adaption	
Program download	Serial port/USB Host/Ethernet	
Communication port	COM0:RS232/RS485/RS422 COM1:RS232/RS485/RS422 COM2:RS232	
Audio output	1*Audio output	
Extended interface	1*CANopen	
Electrical specifications		
Input power supply	DC12V~DC28V, Built-in isolation power supply	
Rated power	12W @24V DC	
Allowable loss of power	<3ms	
Insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specifications		
PCB	Exquisite spraying	
Shell color	Black	
Shell material	Metallic	
Shape size	406.5*313.5*48.3 mm	
Cutout size	387.5*294.5 mm	
Weight	5Kg	
Environmental specifications		
Operating ambient temperature	-10° C ∼ 50° C	
Operating ambient humidity	10% to 90% noncondensing	
Storage ambient temperature	-20° C ~ 60° C	
Storage ambient humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	Conforming to IP65 certification(4208-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
02 0001101100011011		

Mechanical	Dimensions (Unit:mm)  406.50
313.50	Kinco
	48.30
294.5	387.5  Cut-out size

# **xF-SiHMI01** Split type industrial HMI

- High-end configuration: Cortex-A9 architecture, primary frequency is 1G, 512MB DDR3 +4GB eMMC.
- HDMI V1.4 Full HD(1920\*1080@60Hz) high-resolution output.
- Standard with 2 USB hosts, 3 serial ports (COM1 is the type of terminal interface), one network port.
- The concept of separating the screen from the host, adapting various display devices, such as TV, monitor, projector, etc., through HDMI interface.
- 2-channel digital input (programmable, standard 24V source), 3-channel digital output (programmable, standard 24V source).
- Optional WiFi 802.11b /g/ N wireless network, SD card to expand storage capacity.
- Various installation methods: DIN rail installation (35mm), VESA rack installation (75\*75mm).

Model	xF-SiHMI01	尺寸图(单位:mm)
Performance specification		
CPU	32Bit RISC Cortex-A9 1GHz	
Storage	512MB DDR3 + 4GB eMMC	
Interface Configuration		Company Address Colonial Act of Colonial Act o
Display port	1*HDMI V1.4 Full HD (1920*1080@60Hz)	400
Extensible memory	2*USB Host	-133
Ethernet	10/100M self-adaption	
Communication port	COM0:RS232/RS485/RS422 COM1:RS485 COM2:RS232	104
I/O	2 channel digital input (programmable, standard 24V source) 3 channel digital output (programmable, standard 24V source)	
Output power supply	1*DC 24V power supply (same input voltage), current 500mA	
Electrical specifications		© © ©
Rated power	2.4W	<u> </u>
Rated voltage	DC 24V	<sub>1</sub> +30.2+ <sub>1</sub>
Allowable loss of power	<3ms	
Insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	10
Structure specifications		3 1 - 2 1 +
PCB	None of spraying	
Shell color	Black	
Shell material	Metallic	
Shape size	113*104*30.2 mm	
Installation	DIN rail installation (35mm) VESA rack installation (75*75mm)	<ul><li>⊚</li><li>⊚</li><li>⊚</li><li>⊚</li></ul>
Weight	0.47Kg	75
<b>Environmental specifications</b>	;	
Operating ambient temperature	0° C ~ 50° C	75
Operating ambient humidity	10% to 90% noncondensing	
Storage ambient temperature	-30° C ~ 80° C	
Storage ambient humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	IP20	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	

# **GR** series Rear installation without front shell

The rear-installation fixation method can perfectly fit the surface of the equipment and be integrated with the equipment.







Model	GR043	GR070E	GR100E
Performance specification			
Display size	4.3"TFT	7"TFT	10.1"TFT
Resolution	480*272 pixels	800*480 pixels	1024*600 pixels
Display color		16.7M true color	
Brightness	450cd/m <sup>2</sup>	250cd/m <sup>2</sup>	400cd/m <sup>2</sup>
Backlight		LED	
Backlight life		More than 30000 hours	
Touch panel	4 line pr	ecision resistance network (surface hard	ness 4H)
CPU		ARM RISC 32Bit 800MHz	
Storage	128M	IB NAND Flash Memory+128MB DDR3 Me	emory
RTC		Built-in	
Extensible memory		1 USB Host	
Print port		USB Host/serial port	
Ethernet	None	10/100M se	elf-adaption
Program download	USB Slave(Micro USB)/U disk	USB Slave(Micro US	SB)/U disk/Ethernet
Communication port	COM0:RS232/RS485/RS422 COM2:RS232	COM0:RS232/ COM2:	/RS485/RS422 RS232
Electrical specifications			
Input power supply		DC10.8V~DC28V	
Rated power	2W @24V DC	3.6W @24V DC	6W @24V DC
Allowable loss of power		<3ms	
Insulation resistance		Over 50MΩ@500V DC	
Hi-pot test		500 VAC 1 minute	
Structure specifications			
PCB		None of spraying	
Shell color			Metallic gray
Shell material		Metallic	
Shape size	128×75×27mm	190.4*110*30 mm	275.6×163.6×32mm
Cutout size	107.7×69.4 mm	166.7*101.6 mm	236.9×146.3 mm
Weight	0.2Kg	0.3Kg	0.9Kg
Environmental specifications			
Operating ambient temperature		0°C ~ 50°C	
Operating ambient humidity		10% to 90% noncondensing	
Storage ambient temperature		-20°C ~ 60°C	
Storage ambient humidity		10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour		
Cooling mode		Natural air cooling	
Product certification			
Panel protection grade		Conforming to IP20 certification	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005		

## **Customized Series**

# **SZ7G** Series handheld terminal

- Basic specification: 7" TFT, 800×480 pixels, 16.7M true color.
   Standard configuration: 3-option switch, emergency stop switch, holding switch, 10 custom buttons, 2 indicators.
- Practical design: both buttons and touch control, more applications, more flexible choices.
- Mobile operation: handheld terminal, standard with 5 meters of cable.
- Various installation methods, such as suspension, scaffolding, etc.



Model SZ7G SZ7GS SZ7GE SZ7GES  Performance specification  Display size 7 " TFT  Resolution 800*480 pixels  Display color 16.7M true color  Brightness 250cd/m²  Backlight LED
Display size         7 " TFT           Resolution         800*480 pixels           Display color         16.7M true color           Brightness         250cd/m²
Resolution         800*480 pixels           Display color         16.7M true color           Brightness         250cd/m²
Display color 16.7M true color Brightness 250cd/m²
Brightness 250cd/m <sup>2</sup>
Touch panel 4 line precision resistance network (surface hardness 4H)
Backlight life 50000 hours
Programable button 10
Programable LED 2
Emergency button 1
Selection switch 1
Handhold switch None 1 None 1
Processor ARM RISC 32bit 800MHz
Memory 128MB NAND Flash +128MB DDR3 RAM
TC Built-in
Expandable memory 1 USB Host
Ethernet None 10M/100M self-adaptive
rogram download Serial port/U disk U disk/Ethernet
COM port COM1:RS485, COM0:RS232 Ethernet
lectrical specifications
nput power supply DC16~32V, Built-in isolation power supply
ated power 8W@DC24V
ower down allowed <3ms
nsulation resistance Over 50MΩ@500V DC
ielectric strength test 500V AC 1 minute
able length 5 m
tructure specifications
None of spraying
hell color Black
hell material Engineering plastic
Dimensions 220*156*45 mm
nstallation Bracket mounting, suspension mounting
nvironmental specifications
Operating temperature $0^{\circ}$ C $\sim 50^{\circ}$ C
Operating humidity 10% to 90% noncondensing
torage temperature $-10^{\circ}$ C $\sim 60^{\circ}$ C
torage humidity 10% to 90% noncondensing
Sine vibration test 10~500Hz, 30m/s², X, Y, Z direction/hour
Cooling mode Natural air cooling
Product certification
Degree of protection Front panel IP65, overall unit IP62
CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005
Software
onfiguration software Kinco DTools V3.4.3 and above

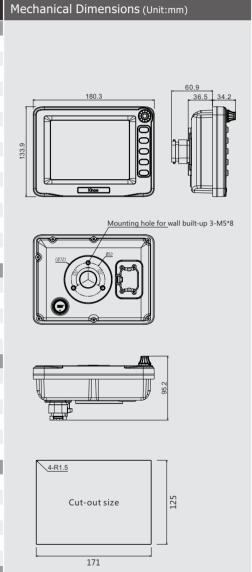
/	_
Mechanical Dimensions (Unit:mm)	
220	
Kinco	
79.	

# **CZ6** Designed for use in severe environments

- Outer shell use high thermostability, high intensity, anti-uvioresistant material ensure the best performance when HMI working in the severe environment.
- With wide range temperature LCD, working temperature can be -20° C 60° C. - Highly shockproof performance.
- Multiple serial ports, CAN port, support CANopen/CANJ1939/serials port/RS232/RS485.
- Whole body IP65 protection.

Model	CZ6	
Performance specification		
Display	5.7 " TFT	
Resolution	640*480 pixels	
Color	65536 colors	
Brightness	700cd/m <sup>2</sup>	
Backlight	LED	
Backlight life	50000 hrs	
Processor	RISC Cortex-A8 800MHz	
Memory	256MB Flash + 256MB DDR3	
RTC	Built-in	
Expandable memory	1 USB Host	
Print port	USB/serial port	
Ethernet	None	
Program download	1*USB 2.0/Serial port	
COM port	COM0: RS485, COM2: RS232, 1*CANopen	
Extended interface	None	
Electrical specifications		
Input range	DC9V~DC36V	
Rated power	10W@DC24V (Isolation)	
Power down allowed	<3ms	
Insulation resistance	Over 50MΩ@500V DC	
Dielectric strength test	500V AC 1 minute	
Structure specifications		
PCB	None of spraying	
Shell color	Navy blue	
Shell material	Engineering plastic	
Dimensions	180.3*133.9*70.7 mm	
Cutout size	171*125mm	
Weight	1Kg	
Environmental specifications		
Operating temperature	-20° C ∼ 60° C	
Operating humidity	10% to 90% noncondensing	
Storage temperature	-30° C ∼ 80° C	
Storage humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Degree of protection	IP65 (whole body)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software		



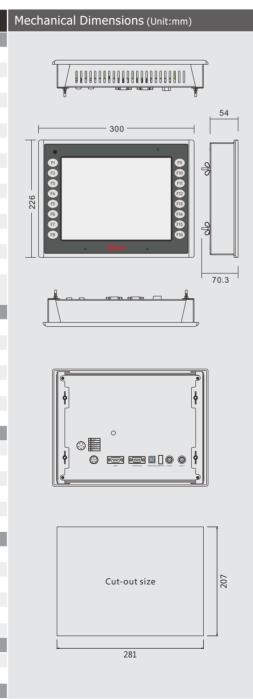


## Customized HMI for vehicle

- RISC Cortex-A8 800MHz CPU, faster and smoother
- Large capacity, 256MB FLASH+256MB DDR3 RAM. - Double CAN port design, support CANopen/CANJ1939.
- Double serial port extension, support RS232/485/422.
- Double video input, perfect for multi-channel monitoring
- The buttons are equipped with adaptive backlight lighting, so that operation at night can be clearly seen. - Wide temperature industrial-grade liquid crystal, working temperature -20° C ~ 70° C, full Angle of view,
- high brightness, visible under sunlight.
- All-metal structure body, better heat dissipation performance, better anti-vibration and anti-interference ability.
- Dual isolation circuit for power supply and serial port to minimize fault, downtime and additional service



Model	CZ10	
Performance specification		
Display	10.4 " TFT	
Resolution	640*480 pixel	
Color	65536 colors	
Brightness	500cd/m <sup>2</sup>	
Backlight	LED	
Backlight life	50000 hrs	
Touch panel	None	
Funtion keys	16 keys, programmable functions can be customized	
Processor	RISC Cortex-A8 800MHz	
Memory	256MB Flash + 256MB RAM	
RTC	Built-in	
Expandable memory	1 USB Host (Max 16G)	
Print port	USB Host/Slave/serial port	
Program download	1*USB 2.0/Serial port	
COM port	2*CAN,1*RS232/RS485/RS422,1*RS232(isolation)	
Video input	2*CVBS analog signal input(BNC connector)	
Video input	support PAL/NTSC format	
Electrical specifications		
Power supply isolation	Built-in	
Rated power	12W	
Rated voltage	DC 24V	
Input range	DC9V~36V	
Power down allowed	<3ms	
Insulation resistance	Over 50MΩ@500V DC	
Dielectric strength test	500V AC 1 minute	
Structure specifications		
PCB	None of spraying	
Shell color	Brown	
Shell material	Aluminum alloy	
Dimensions	300*226*70 mm	
Cutout size	281*207 mm	
Weight	3.3Kg	
Environmental specifications	s	
Operating temperature	-20° C ∼ 70° C	
Operating humidity	10% to 90% noncondensing	
Storage temperature	-30° C ∼ 80° C	
Storage humidity	10% to 90% noncondensing	
Sine vibration test	10~500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Degree of protection	IP65(4280-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software		
Configuration software	Kinco DTools V3.3 and above	



# Configuration Software: Kinco DTools





Kinco DTools configuration software. Support simplified Chinese, Chinese, English, Korean, German, Russian, Turkish, Arabic and other eight language versions. Configuration design content supports all installed fonts on your computer system. Support remote cloud monitoring, VNC supports terminal interopertation from screen to screen or screen to PC and mobile phone etc, support installment, PDF browsing, operation log and other convenient control design wizard guide interface, humanized design, what you see is what you get, you can get started quickly.

















