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HMI PRODUCT SELECTION MANUAL



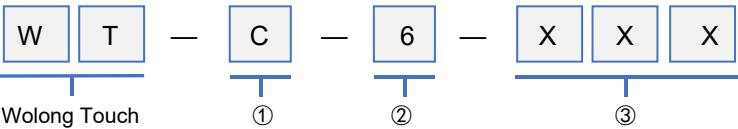
Product introduce& Naming scheme



HMI Product description

As a bridge between OT and IT, it combines traditional industrial automation products with new technologies such as the Internet of Things, edge computing, and digitalization to provide equipment manufacturers and equipment users with a new generation of HMI, improve efficiency, reduce costs, optimize management, and promote the intelligent development of equipment.

HMI Naming scheme



①	
Code	Type
C	Capacitive
R	Resistance

②	
Code	Product Series
0	0 Series
6	6000 Series

③	
Code	Screen Size
070	7 inch
100	9.7 inch/10.1 inch
156	15.6 inch
...	...

Application field

- 3C
 - Lithium battery
- Photovoltaic
 - Print and Package
- Textile machinery
 - CNC
- Semiconductor
 -

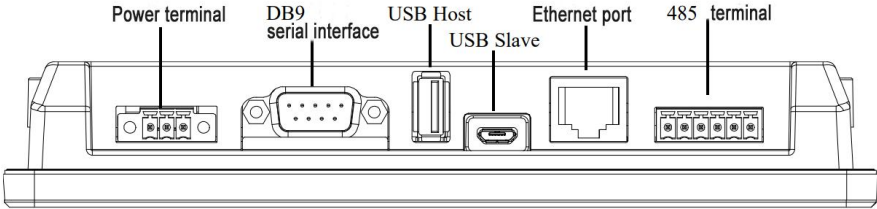
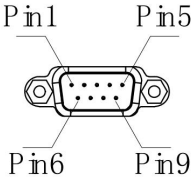
Technology Specification

WT-C0070

Specification		Content
Hardware parameter	Display screen	7" 16:9 TFT LCD, Wide viewing Angle
	Resolution	1024×600
	Color	24 bit
	Luminance	450 cd/m ²
	Backlight	LED
	LCD life	50000 hours
	Touch screen	Glass+Glass projective multi-point capacitive touch screen
	CPU	600MHz ARM Cortex-A8
	Memorizer	128M Flash + 128M DDR3
	RTC	Real-time clock built-in
	Ethernet	10M/100M self-adaption
	SD card	Support
	USB port	one USB Slave 2.0 port; one USB Host 2.0 port
	Program download mode	USB slave/ USB / Ethernet
	Serial Interface	COM1: RS232/RS485/RS422; COM2/COM4: RS485; COM3: RS232
	Liquid crystal viewing Angle (T/B/L/R)	70°/75°/75°/75°
Electrical specification	Rated power	< 6W
	Rated voltage	DC24V, Workable range DC 9V~28V
	Power protection	have surge protection
	Allowed power outage	< 5mS
	CE & RoHS	Meet EN61000-6-2:2005, EN61000-6-4:2007 standard; Meet RoHS Surge protection±1KV, group pulse±2KV; Electrostatic contact 4KV, air discharge 8KV
environmental requirement	Work temperature	-10~60℃
	Storage temperature	-20~70℃
	UV protection	Do not work in strong ultraviolet environment (such as direct sunlight)
	Environment humidity	10~90%RH
	Shock resistance	10~25Hz (X、Y、Z direction 2G/30 min)
	Cooling mode	Natural air cooling
Mechanical index	Protection level	The front panel complies with IP65 (with flat cabinet installation), and the rear shell complies with IP20
	Mechanical structure	Zinc alloy + engineering plastics
	Hole size	178mm×125mm
	Overall size	185.1mm×131.1mm×30mm
	Overall weight	about 600g

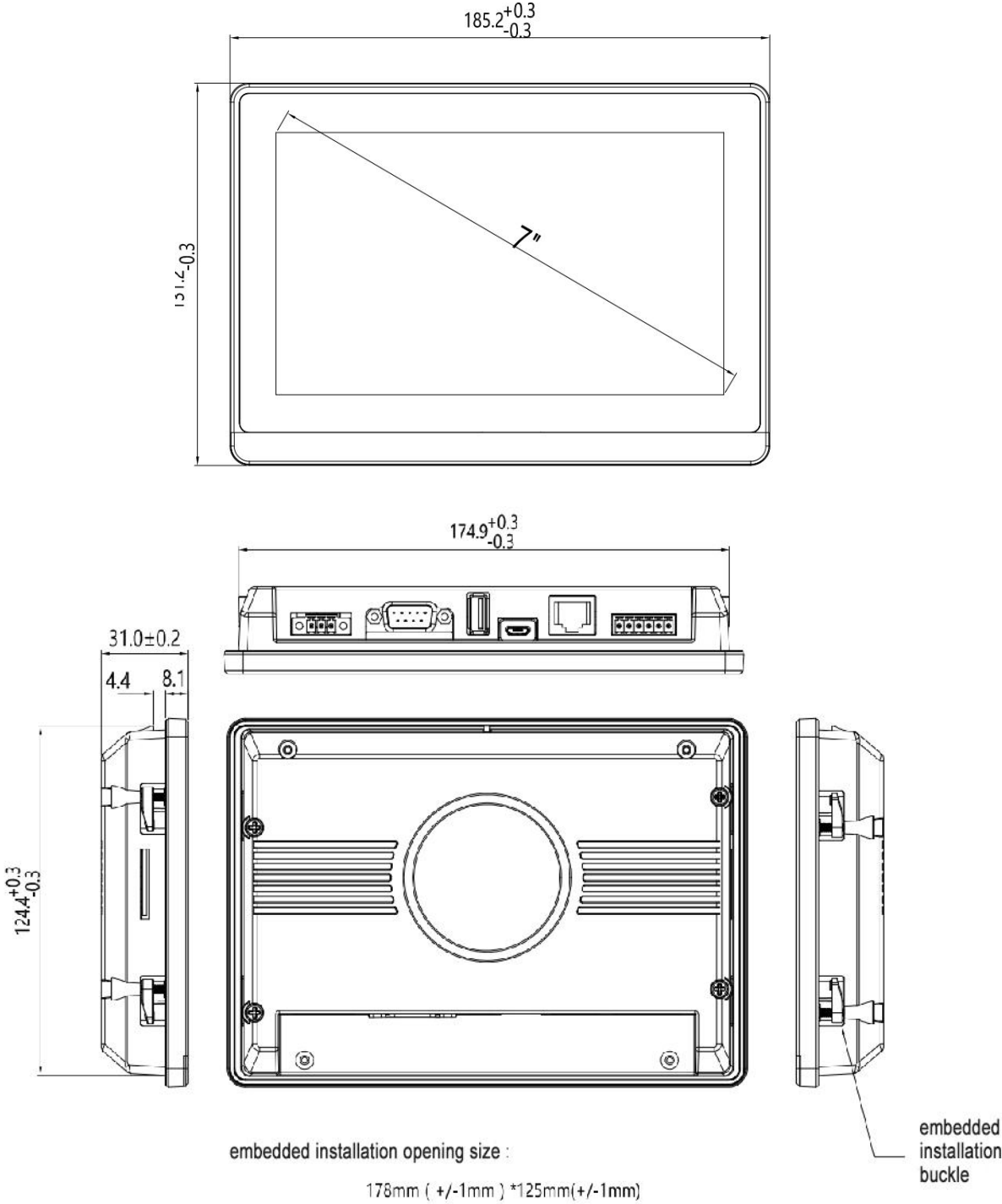
WT-C0070

Wiring Definition

		
Power terminal (Pin1~3 from left to right)		
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 serial interface (Pin1~Pin9 from left to right)		
	Pin1	Rx-(B)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+
USB Host		
	USB Type A	used to connect USB, scan gun and other peripherals
USB Slave		
	MicroUSB	used to download program and debug
485 terminal (Pin1~Pin6 from left to right)		
	Pin1	A+(COM2)
	Pin2	B—(COM2)
	Pin3	GND
	Pin4	A+(COM4)
	Pin5	B—(COM4)
	Pin6	GND
Ethernet port		
	RJ45	used to set Ethernet with controller or used to connect the servers

Product Size

WT-C0070



Technical Specification

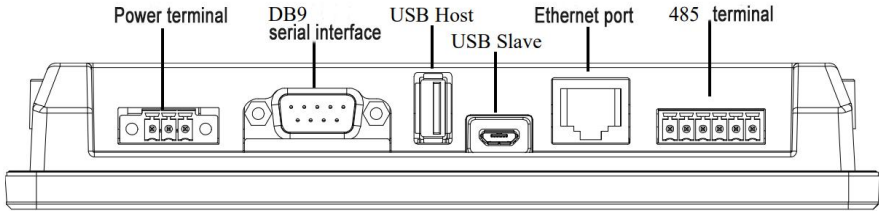
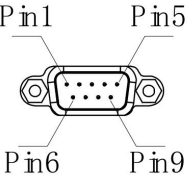
WT-C0100

Specification		Content
Hardware parameter	Display screen	9.7" 4:3 TFT LCD , Full viewing Angle
	Resolution	1024×768
	Color	16 bit
	Luminance	350 cd/m²
	Backlight	LED
	LCD life	50000 hours
	Touch screen	Glass+Glass projective multi-point capacitive touch screen
	CPU	600MHz ARM Cortex-A8
	Memorizer	128M Flash + 128M DDR3
	RTC	Real-time clock built-in
	Ethernet	10M/100M self-adaption
	SD card	Support
	USB port	one USB Slave 2.0 port; one USB Host 2.0 port
	Program download mode	USB slave/ USB /Ethernet
	Serial Interface	COM1: RS232/RS485/RS422; COM2/COM4: RS485; COM3: RS232;
	Liquid crystal viewing Angle (T/B/L/R)	85'/85'/85'/85'
Electrical specification	Rated power	< 8W
	Rated voltage	DC24V, Workable range DC 9V~28V
	Power protection	have surge protection
	Allowed power outage	< 3mS
	CE & RoHS	Meet EN61000-6-2:2005, EN61000-6-4:2007 standard; Meet RoHS Surge protection±1KV, group pulse±2KV; Electrostatic contact 4KV, air discharge 8KV
environmental requirement	Work temperature	-10~60℃
	Storage temperature	-20~70℃
	UV protection	Do not work in strong ultraviolet environment (such as direct sunlight)
	Environment humidity	10~90%RH
	Shock resistance	10~25Hz (X、Y、Z direction 2G/30 min)
	Cooling mode	Natural air cooling
Mechanical index	Protection level	The front panel complies with IP65 (with flat cabinet installation), and the rear shell complies with IP20
	Mechanical structure	Zinc alloy + engineering plastics
	Hole size	230mm×180mm
	Overall size	247mm×197mm×31.5mm
	Overall weight	about 1100g

WT-C0100

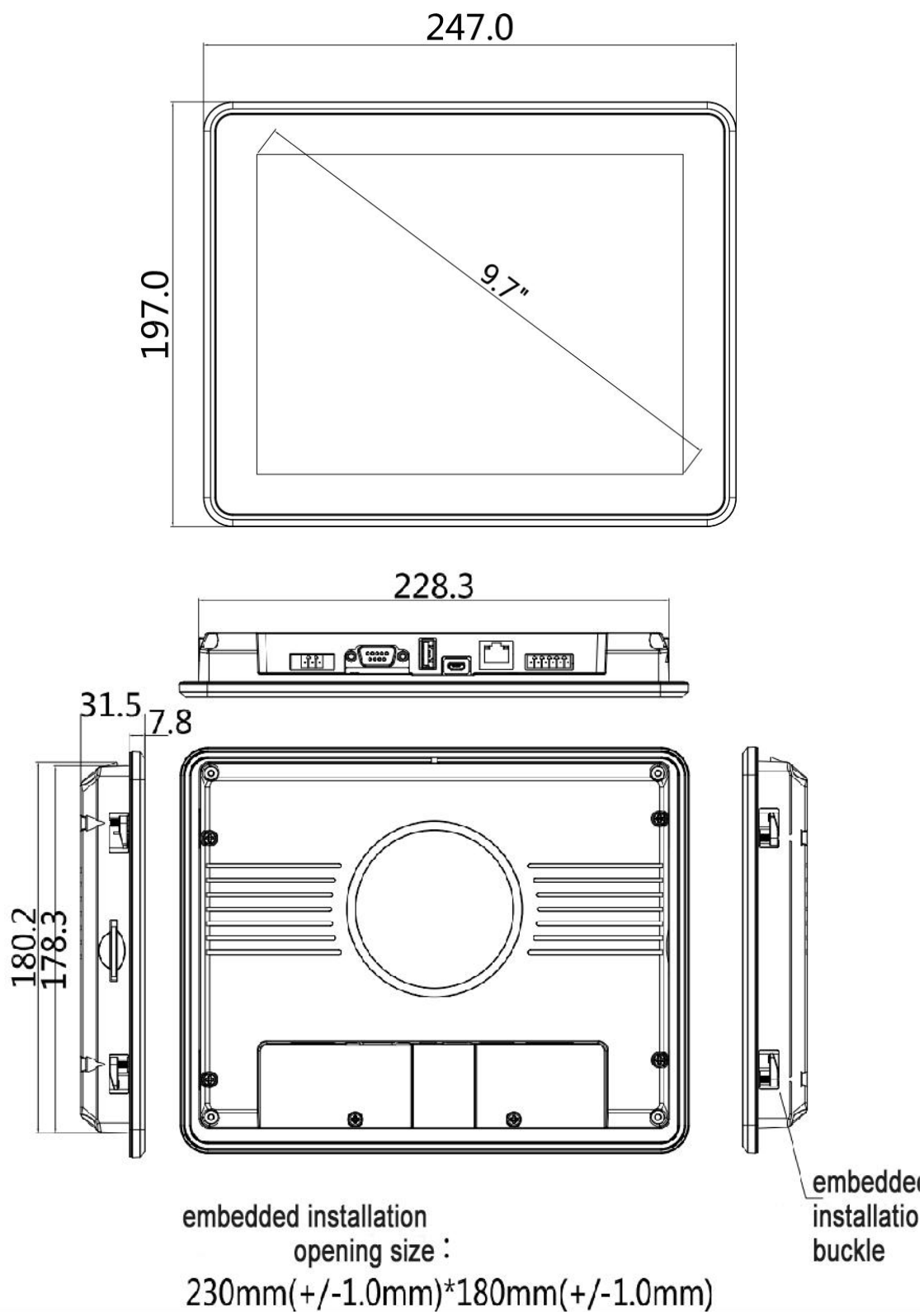


Wiring Definition

		
Power terminal (Pin1~3 from left to right)		
	Pin1	FG
	Pin2	0V
	Pin3	DC24V
DB9 serial interface		
	Pin1	Rx-(B)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+
USB Host		
	USB Type A	used to connect USB,scan gun and other peripherals
USB Slave		
	MicroUSB	used to download program and debug
485 terminal (Pin1~Pin6 from left to right)		
	Pin1	A+(COM2
	Pin2	B-(COM2)
	Pin3	GND
	Pin4	A+(COM4)
	Pin5	B-(COM4)
	Pin6	GND
Ethernet port		
	RJ45	used to set Ethernet with controller or used to connect the servers

Product Size

WT-C0100



Technical Specification

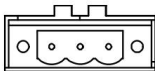
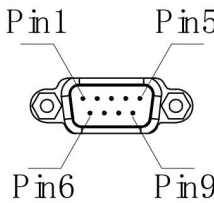
WT-R6070

Hardware Version		Version: 2.0	Version: 3.X
Hardware parameter	Display screen	7" 16:9 TFT LCD	
	Resolution	1024×600	
	Color	24 bit	
	Luminance	350 cd/m²	
	Backlight	LED	
	LCD life	50000 hours	
	Touch screen	4-wire industrial resistance touch screen	
	CPU	600MHz ARM Cortex-A8	4 core 1.2GHz ARM Cortex-A7
	Memorizer	128M DDR3 + 128M Flash	256MB DDR3+4GB EMMC
	RTC	Real-time clock built-in	
	Ethernet	1 route 10M/100M self-adaption	
	SD card	Support	
	USB port	one USB Slave 2.0 port; one USB Host 2.0 port	
	Program download mode	USB Slave/USB	
	Serial Interface	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232	
	Liquid crystal viewing Angle (T/B/L/R)	85°/85°/85°/85°	
Electrical specification	Rated power	< 10W	
	Rated voltage	DC24V, Workable range DC 9V~28V	
	Power protection	have surge protection	
	Allowed power outage	< 5mS	
	CE & RoHS	Meet EN61000-6-2:2005, EN61000-6-4:2007 standard; Meet RoHS Surge protection±1KV, group pulse±2KV; Electrostatic contact 4KV, air discharge 8KV	
environmental requirement	Work temperature	0~50℃	
	Storage temperature	-20~60℃	
	UV protection	Do not work in strong ultraviolet environment (such as direct sunlight)	
	Environment humidity	10~90%RH	
	Shock resistance	10~25Hz (X、Y、Z direction 2G/30 min)	
	Cooling mode	Natural air cooling	
Mechanical index	Protection level	The front panel complies with IP65 (with flat cabinet installation), and the rear shell complies with IP20	
	Mechanical structure	engineering plastics	
	Hole size	192mm×138mm	
	Overall size	204mm×145mm×33.8mm	
	Overall weight	about 560g	

WT-R6070

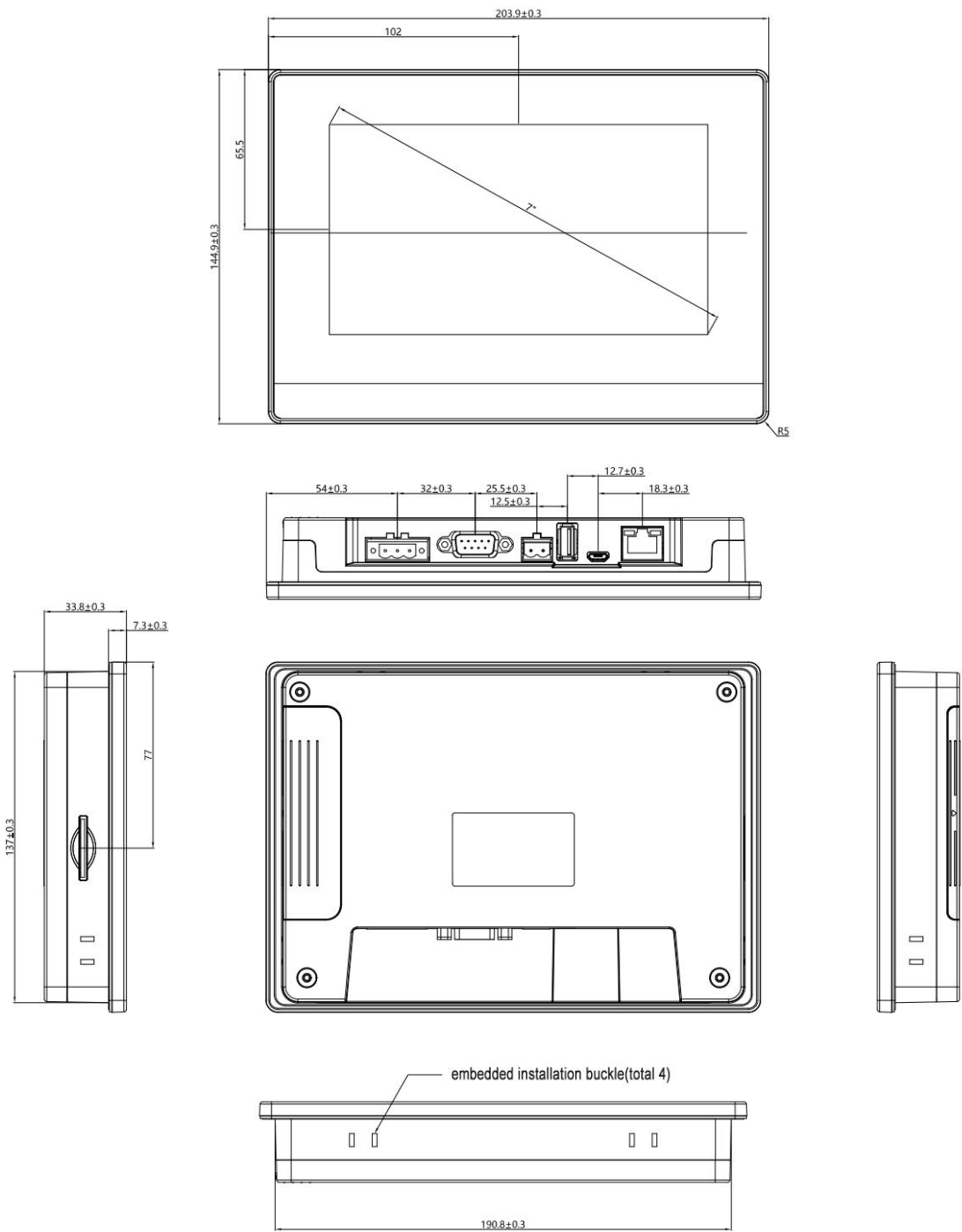


Wiring Definition

Power terminal DB9 serial interface 485 serial interface USB Host USB Slave Ethernet port			
Power terminal (Pin1~3 from left to right)			
	Pin1	FG	
	Pin2	0V	
	Pin3	DC24V	
DB9 serial interface			
	Pin	COM1	COM3
	Pin1	Rx-(B) (RS422/485-)	
	Pin2	RxD (RS232)	
	Pin3	TxD (RS232)	
	Pin4	Tx- (RS422)	
	Pin5	GND	
	Pin6	Rx+(A) (RS422/485+)	
	Pin7		RxD (RS232)
	Pin8		TxD (RS232)
	Pin9	Tx+ (RS422)	
485 terminal (Pin1~2 from left to right)			
	Pin1	A+ (COM2 RS485)	
	Pin2	B- (COM2 RS485)	
Ethernet port			
	RJ45	used to set Ethernet with controller or used to connect the servers	
USB Host			
	USB Type A	used to connect USB,scan gun and other peripherals	
USB Slave			
	Micro USB	used to download program and debug	

Product Size

WT-R6070



embedded installation
opening size : 192×138 (+1.5mm/-0.0mm)

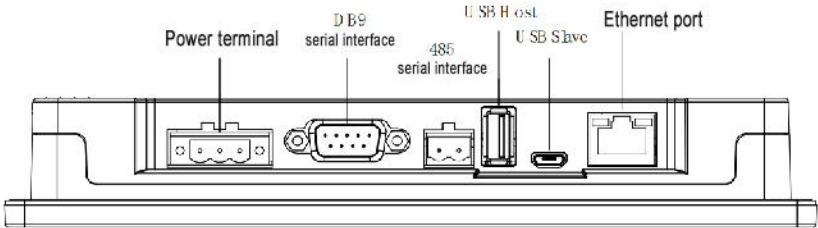
Technical Specification

WT-R6100

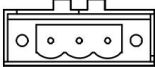
Hardware Version		Version: 2.0	Version: 3.X
Hardware parameter	Display screen	10.1" 16:9 TFT LCD	
	Resolution	1024×600	
	Color	24 bit	
	Luminance	400 cd/m²	
	Backlight	LED	
	LCD life	50000 hours	
	Touch screen	4-wire industrial resistance touch screen	
	CPU	600MHz ARM Cortex-A8	4 core 1.2GHz ARM Cortex-A7
	Memorizer	128M DDR3 + 128M Flash	256MB DDR3+4GB EMMC
	RTC	Real-time clock built-in	
	Ethernet	1 route 10M/100M self-adaption	
	SD card	Support	
	USB port	one USB Slave 2.0 port; one USB Host 2.0 port	
	Program download mode	USB Slave/ USB /Ethernet	
	Serial Interface	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232	
	Liquid crystal viewing Angle (T/B/L/R)	85°/85°/85°/85°	
Electrical specification	Rated power	< 10W	
	Rated voltage	DC24V, Workable range DC 9V~28V	
	Power protection	have surge protection	
	Allowed power outage	< 5mS	
	CE & RoHS	Meet EN61000-6-2:2005, EN61000-6-4:2007 standard; Meet RoHS Surge protection±1KV, group pulse±2KV; Electrostatic contact 4KV, air discharge 8KV	
environmental requirement	Work temperature	0~50℃	
	Storage temperature	-20~60℃	
	UV protection	Do not work in strong ultraviolet environment (such as direct sunlight)	
	Environment humidity	10~90%RH	
	Shock resistance	10~25Hz (X、Y、Z direction 2G/30 min)	
	Cooling mode	Natural air cooling	
Mechanical index	Protection level	The front panel complies with IP65 (with flat cabinet installation), and the rear shell complies with IP20	
	Mechanical structure	engineering plastics	
	Hole size	260mm×202mm	
	Overall size	273mm×213mm×36mm	
	Overall weight	about 920g	

WT-R6100

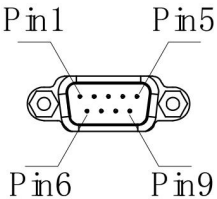
Wiring Definition



Power terminal (Pin1~3 from left to right)

	Pin1	FG
	Pin2	0V
	Pin3	DC24V

DB9 serial interface

	Pin1	Rx-(B)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+

485 terminal (Pin1~2 from left to right)

	Pin1	A+ (COM2 RS485)
	Pin2	B- (COM2 RS485)

Ethernet port

	RJ45	used to set Ethernet with controller or used to connect the servers
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USB Host

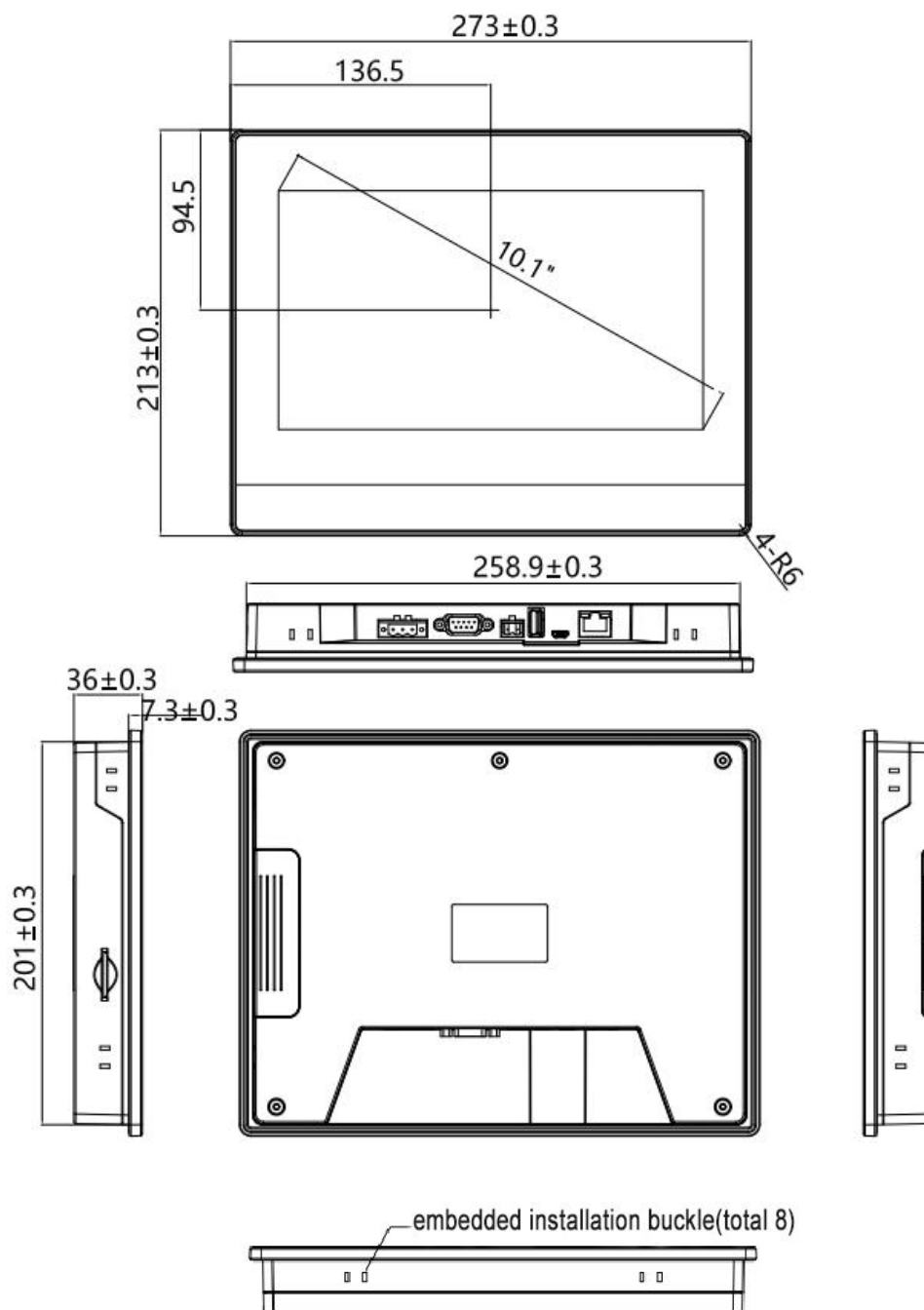
	USB Type A	used to connect USB,scan gun and other peripherals
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USB Slave

	Micro USB	used to download program and debug
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Product Size

WT-R6100



embedded installation
 opening size : $260 \times 202 (+1.0\text{mm}/-0.0\text{mm})$

Technical Specification

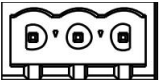
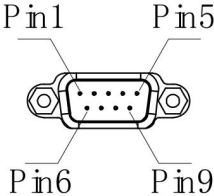
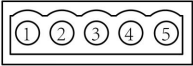
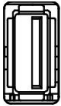
WT-R6156

Specification		Content
Hardware parameter	Display screen	15.6" 16:9 TFT LCD
	Resolution	85'/85'/85'/85'
	Color	1920×1080
	Luminance	65K
	Backlight	250 cd/m²
	LCD life	LED
	Touch screen	50000 hours
	CPU	4-wire industrial resistance touch screen
	Memorizer	1G ARM Cortex-A8
	RTC	256MB FLASH+512MB DDR3
	Ethernet	Real-time clock built-in
	SD card	Micro SD (TF) card
	USB port	2 route 10M/100M self-adaption
	Program download mode	one USB Slave 2.0 port; one USB Host 2.0 port
	Serial Interface	USB Slave/ USB /Ethernet
	Liquid crystal viewing Angle（T/B/L/R）	COM1/ COM3: RS232/RS485/RS422; COM2: RS485/RS422
Electrical specification	Rated power	< 18W
	Rated voltage	DC24V， Workable range DC 18V~28V
	Power protection	Adopts power isolation module, with surge protection
	Allowed power outage	< 5mS
	CE & RoHS	Meet EN61000-6-2:2005， EN61000-6-4:2007 standard; Meet RoHS Surge protection±1KV， group pulse±2KV； Electrostatic contact 4KV， air discharge 8KV
environmental requirement	Work temperature	0~50℃
	Storage temperature	-20~60℃
	UV protection	Do not work in strong ultraviolet environment (such as direct sunlight)
	Environment humidity	10~90%RH
	Shock resistance	10~25Hz（X、 Y、 Z direction 2G/30 min）
	Cooling mode	Natural air cooling
Mechanical index	Protection level	Embedded installation /VESA installation
	Mechanical structure	The front panel complies with IP65 (with flat cabinet installation), and the rear shell complies with IP20
	Hole size	Aluminium alloy housing
	Overall size	380mm×245mm
	Overall weight	394mm×256mm×36mm， thickness 22mm without extension
Hardware parameter	Display screen	about 2250g

WT-R6156

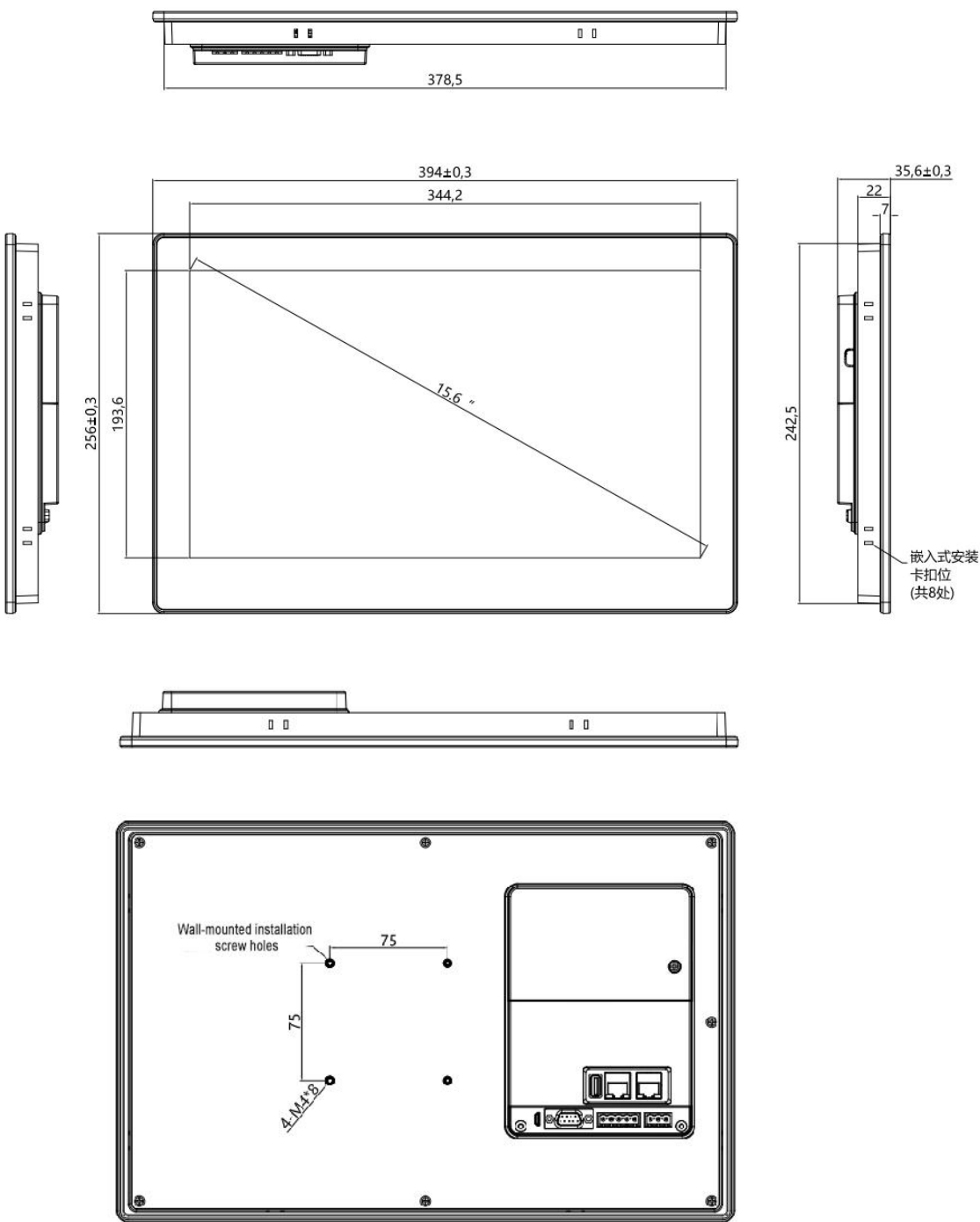


Wiring Definition

Power terminal (Pin1~3 from left to right)		
	Pin1	DC24V
	Pin2	GND
	Pin3	FG
DB9 serial interface(COM1/COM3)		
	Pin1	Rx-(B)
	Pin2	RxD (COM1 RS232)
	Pin3	TxD (COM1 RS232)
	Pin4	Tx-
	Pin5	GND
	Pin6	Rx+(A)
	Pin7	RxD (COM3 RS232)
	Pin8	TxD (COM3 RS232)
	Pin9	Tx+
COM2 terminal		
	Pin1	Rx+(A)
	Pin2	Rx-(B)
	Pin3	GND
	Pin4	Tx+
	Pin5	Tx
USB Host		
	USB Type A	used to connect USB,scan gun and other peripherals
USB Slave		
	Micro USB	used to download program and debug

Product Size

WT-R6156



embedded installation opening size : 380mm*245mm



a **WOLONG** company

随时随地 如您所需

ANYTIME AND ANYWHERE AS YOUR NEED



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