

1 Product Overview

1.1 Product introduction

7000 Series HMIs are an upgraded version of the 6000 Series HMIs. It continues the high cost-performance ratio of the 6000 series touch screen, with an industrial ABS plastic shell that ensures low cost and high reliability. The new back cover design, optimized based on the 6000 series. Additionally, multiple resolution models are available to meet the needs of various application scenarios.

The 7043WE-B is a product model of the 7000 Series HMIs that supports diverse ports, including USB、DB-9 and Ethernet.

1.2 Product Appearance

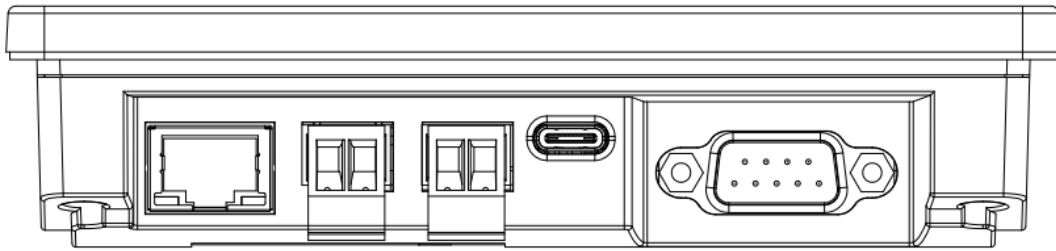


2 Specifications

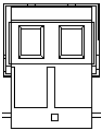
Category	Item	Description
Hardware	Display	4.3" 16:9 TFT LCD
	Resolution	800×480
	Colors	16-bit
	Brightness	250cd/m²
	Backlight	LED
	LCD Lifetime	50000 hours
	Touch Panel	4-wire industrial resistive touch panel
	CPU	Cortex-A7(main frequency is 1GHz,dual-core)
	Storage	128MB DDR3 + 128MB Flash
	RTC	Built-in
	Ethernet	1* 10M/100M self-adaptive RJ45 port
	SD Card	NA
	Bluetooth	NA
	USB Port	1*USB Type-C 2.0 OTG port
	Program Download Method	USB Slave/U disk/Ethernet
	Serial Port	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232
	LCD Viewing Angles (T/B/L/R)	80° /80° /80° /80°
Electrical feature	Rated Power	< 5W
	Rated Voltage	DC24V, operational range: DC 9V~28V
	Power Protection	Lightning surge protection
	Power Interruption Tolerance	< 5ms
	CE&RoHS	EN61000-6-2:2019 and EN61000-6-4:2019 standards

Category	Item	Description
		certified;RoHS certified;lightning surge $\pm 1\text{kV}$;group pulse $\pm 2\text{kV}$;electrostatic contact 4kV,air discharge 8kV
Environmental requirements	Operating Temperature	0~50°C
	Storage Temperature	-20~60°C
	UV Resistance	Operating in high UV environment is prohibited(e.g.,in direct sunlight)
	Environmental Humidity	10%~90%RH(non-condensing)
	Vibration Endurance	10~25Hz(X/Y/Z direction,2G/30 minutes)
	Cooling Method	Natural air cooling
Mechanical feature	Protection Level	Front:IP65(with flush panel cabinet installation),Rear:IP20
	Enclosure Material	Engineering plastic
	Cutout Dimensions	132mm×80mm
	Dimensions	138mm×86mm×32mm
	Weight	About 300g

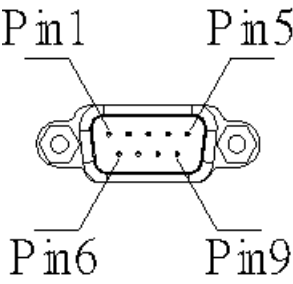
3 Wiring Definition



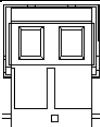
3.1 Power Terminal

Power Terminal (Pin 1~2 from left to right)	Pin	Description
	Pin1	0V
	Pin2	DC 24V

3.2 DB9 Serial Port

	Pin	COM1(RS485)	COM1(RS422)	COM1(RS232)	COM3(RS232)
	Pin1	B-	Rx-		
	Pin2			RxD	
	Pin3			TxD	
	Pin4		Tx-		
	Pin5			GND	GND
	Pin6	A+	Rx+		
	Pin7				RxD
	Pin8				TxD
	Pin9		Tx+		

3.3 RS485 Interface

RS485 (Pin1~Pin2 from left to right)	Pin	Description
	Pin1	A+ (COM2 RS485)
	Pin2	B- (COM2 RS485)

3.4 Ethernet Port

RJ45 port for Ethernet communication with the controller or server.



3.5 USB Type-A 2.0 OTG Port

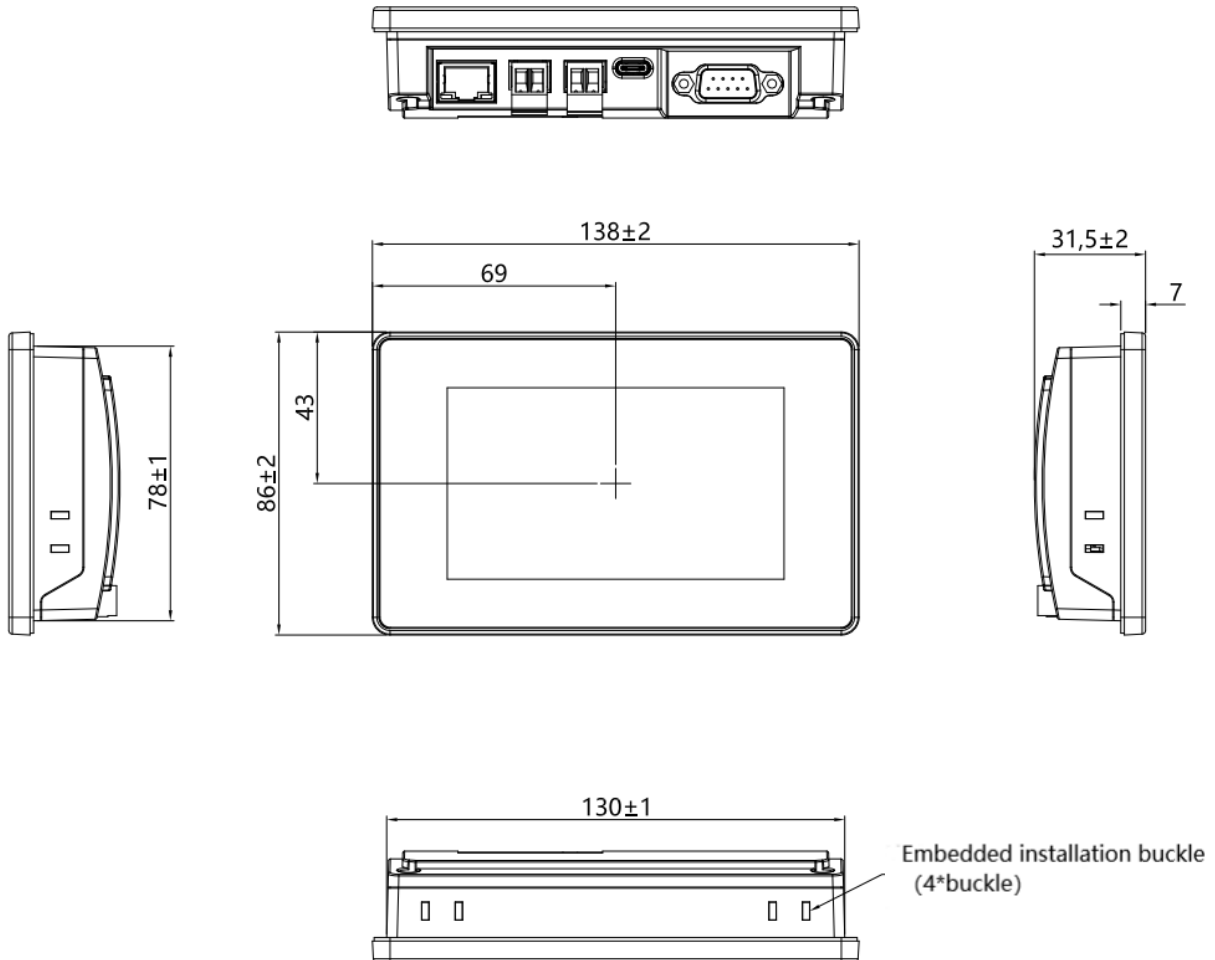
USB Slave port, Used for program download.

USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner (needs equipping Type-C and USB Type-A conversion line).



4 Dimension

Unit: mm



Flush-mounted installation cutout dimensions: 132×80 mm

Product Overview

1.1 Product introduction

7000 Series HMIs are an upgraded version of the 6000 Series IoT HMIs. It continues the high cost-performance ratio of the 6000 series touch screen, with an industrial ABS plastic shell that ensures low cost and high reliability. The new back cover design, optimized based on the 6000 series. Additionally, multiple resolution models are available to meet the needs of various application scenarios.

The 7070W is a product model of the 7000 Series HMIs that supports diverse ports, including USB and DB-9.

1.2 Product Appearance

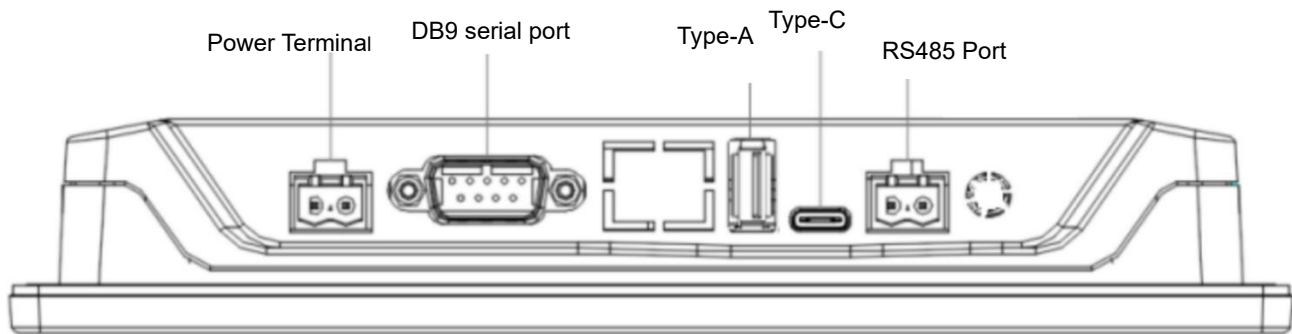


2 Specifications

category	Item	Descripton
Hardware	Display	7" 16:9 TFT LCD
	Resolution	1024×600
	Colors	24-bit
	Brightness	350cd/m²
	Backlight	LED
	LCD Lifetime	50000 hours
	Touch Panel	4-wire industrial resistive touch panel
	CPU	Cortex-A7(main frequency is 1GHz,dual-core)
	Storage	128MB DDR3+4GB eMMC
	RTC	Built-in
	Ethernet	NA
	SD Card	NA
	Bluetooth	NA
	USB Port	1*USB Type-C 2.0 OTG port;1*USB Type-A 2.0port
	Program Download Method	USB Slave/U disk
	Serial Port	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232
	LCD Viewing Angles (T/B/L/R)	85°/85°/85°/85°
Electrical feature	Rated Power	< 10W
	Rated Voltage	DC24V,operational range:DC 9V~28V
	Power Protection	Lightning surge protection
	Power Interruption Tolerance	< 5mS
	CE&RoHS	EN61000-6-2:2019 and EN61000-6-4:2019 standards

category	Item	Descripton
		certified;RoHS certified;lightning surge $\pm 1\text{kV}$;group pulse $\pm 2\text{kV}$;electrostatic contact 4kV ,air discharge 8kV
Environmental requirements	Operating Temperature	$0\sim 50^{\circ}\text{C}$
	Storage Temperature	$-20\sim 60^{\circ}\text{C}$
	UV Resistance	Operating in high UV environment is prohibited(e.g.,in direct sunlight)
	Environmental Humidity	$10\%\sim 90\%\text{RH}$ (non-condensing)
	Vibration Endurance	$10\sim 25\text{Hz}$ (X/Y/Z direction,2G/30 minutes)
	Cooling Method	Natural air cooling
Mechanical feature	Protection Level	Front:IP65(with flush panel cabinet installation),Rear:IP20
	Enclosure Material	Engineering plastic
	Cutout Dimensions	$190\text{mm}\times 136\text{mm}$
	Dimensions	$204\text{mm}\times 145\text{mm}\times 34\text{mm}$ ($\pm 0.5\text{mm}$)
	Weight	About 468g

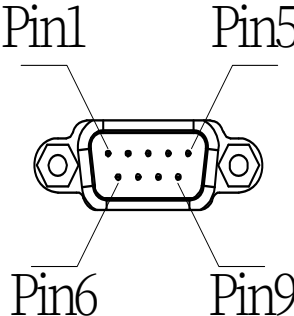
3 Wiring Definition



3.1 Power Terminal

Power Terminal (Pin 1~2 from left to right)	Pin	Description
	Pin1	0V
	Pin2	DC24V

3.2 DB9 Serial Interface

	Pin	COM1(RS485)	COM1(RS422)	COM1(RS232)	COM3(RS232)
	Pin1	Rx-(B)	Rx-(B)		
	Pin2			RxD	
	Pin3			TxD	
	Pin4		Tx-		
	Pin5	GND	GND	GND	GND
	Pin6	Rx+(A)	Rx+(A)		
	Pin7				RxD
	Pin8				TxD
	Pin9		Tx+		

3.3 RS485 Interface

RS485 (Pin1~Pin2 from left to right)	Pin	Description
	Pin1	A+ (COM2 RS485)
	Pin2	B- (COM2 RS485)

3.4 USB Type-C 2.0 Port

USB Slave port, Used for program download.

USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner (needs equipping Type-C and USB Type-A conversion line).



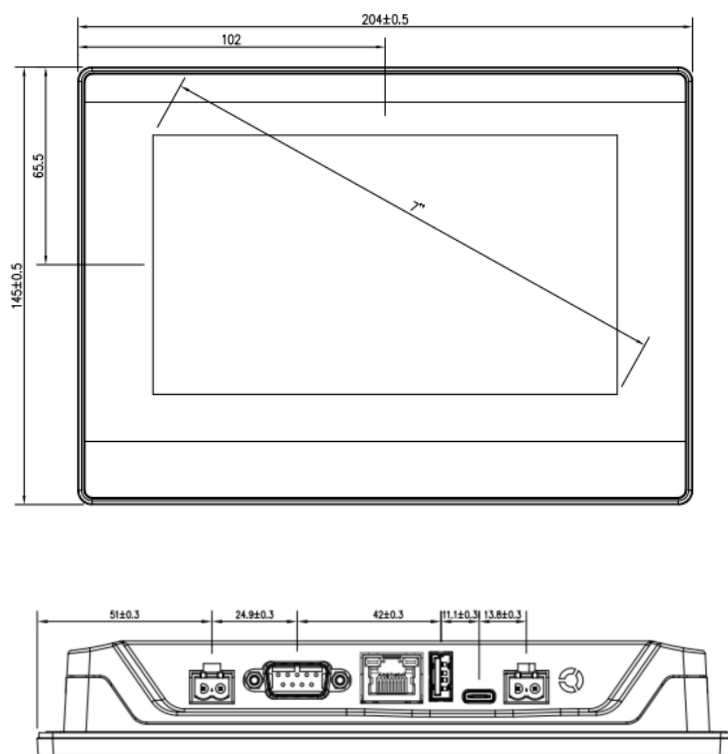
3.5 USB Type-A 2.0 Port

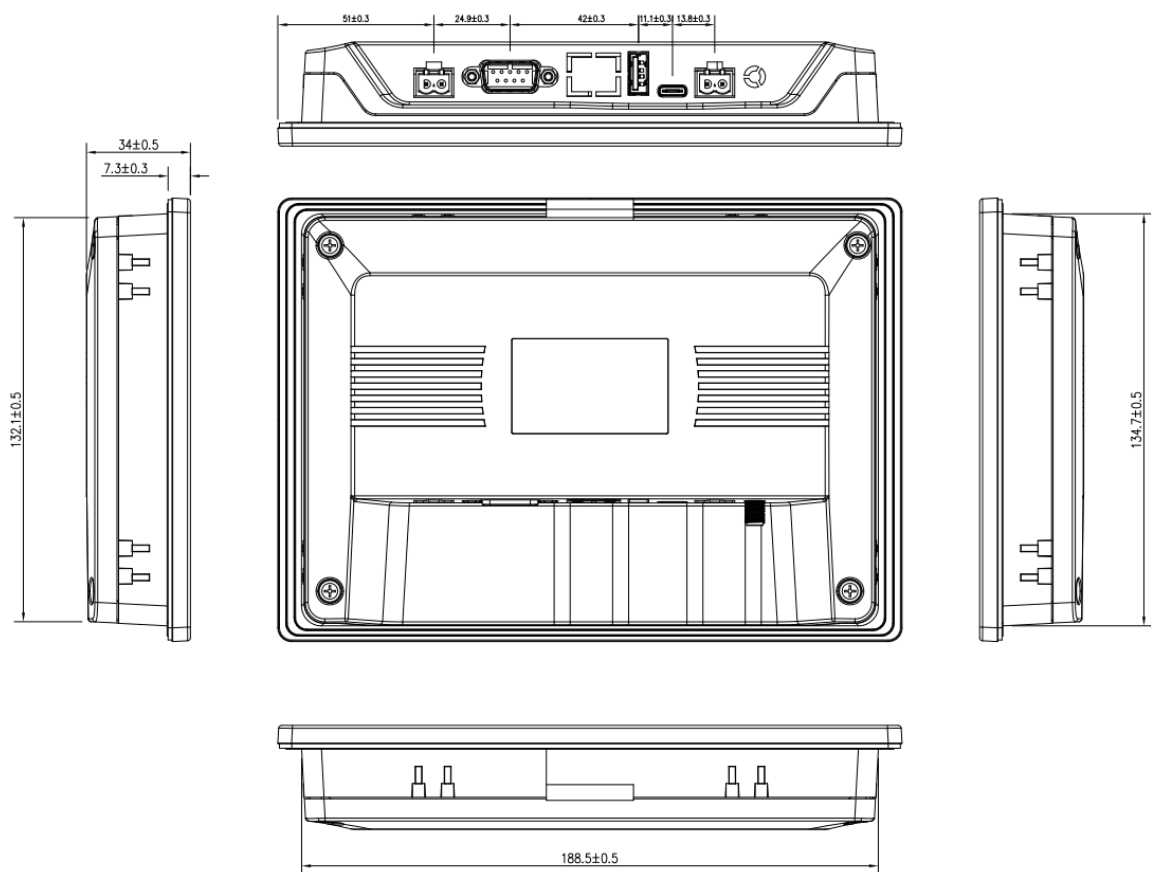
USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner.



4 Dimension

Unit: mm





Flush-mounted installation cutout dimensions: $190 \times 136 (+1.5\text{mm}/-0.0\text{mm})$

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The 7070WE is a product model of the 7000 Series HMIs that supports diverse ports, including USB、DB-9 and Ethernet.

1.2 Product Appearance

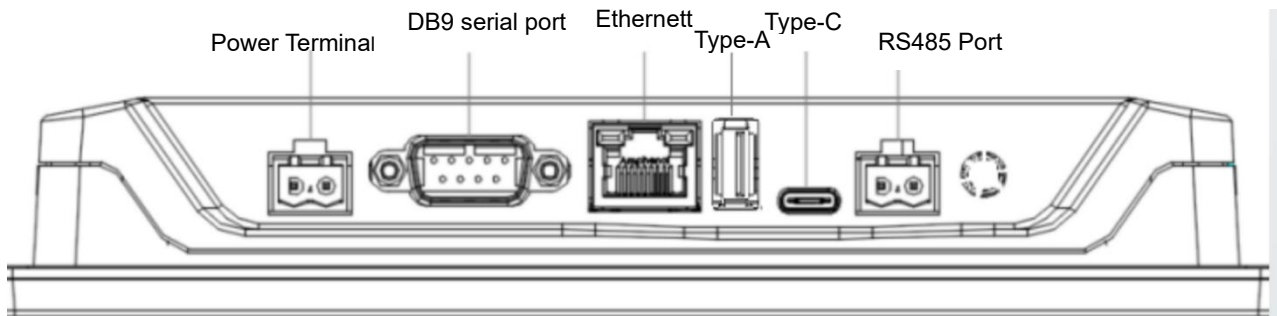


2 Specifications

category	Item	Descripton
Hardware	Display	7" 16:9 TFT LCD
	Resolution	1024×600
	Colors	24-bit
	Brightness	350cd/m²
	Backlight	LED
	LCD Lifetime	50000 hours
	Touch Panel	4-wire industrial resistive touch panel
	CPU	Cortex-A7(main frequency is 1GHz,dual-core)
	Storage	128MB DDR3+4GB eMMC
	Flash	4GB eMMC
	RTC	Built-in
	Ethernet	1* 10M/100M self-adaptive RJ45 port
	SD Card	NA
	Bluetooth	NA
	USB Port	1*USB Type-C 2.0 OTG port;1*USB Type-A 2.0port
	Program Download Method	USB Slave/U disk/Ethernet
	Serial Port	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232
	LCD Viewing Angles (T/B/L/R)	85°/85°/85°/85°
Electrical feature	Rated Power	< 10W
	Rated Voltage	DC24V,operational range:DC 9V~28V
	Power Protection	Lightning surge protection
	Power Interruption Tolerance	< 5mS

category	Item	Descripton
	CE&RoHS	EN61000-6-2:2019 and EN61000-6-4:2019 standards certified;RoHS certified;lightning surge $\pm 1\text{kV}$;group pulse $\pm 2\text{kV}$;electrostatic contact 4kV,air discharge 8kV
Environmental requirements	Operating Temperature	0~50°C
	Storage Temperature	-20~60°C
	UV Resistance	Operating in high UV environment is prohibited(e.g.,in direct sunlight)
	Environmental Humidity	10%~90%RH(non-condensing)
	Vibration Endurance	10~25Hz(X/Y/Z direction,2G/30 minutes)
	Cooling Method	Natural air cooling
Mechanical feature	Protection Level	Front:IP65(with flush panel cabinet installation),Rear:IP20
	Enclosure Material	Engineering plastic
	Cutout Dimensions	190mm×136mm
	Dimensions	204mm × 145mm × 34mm ($\pm 0.5\text{mm}$)
	Weight	About 476g

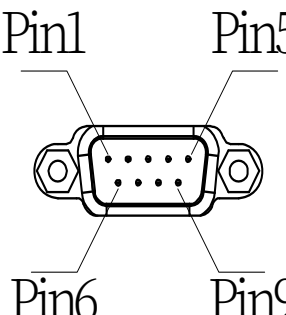
3 Wiring Definition



3.1 Power Terminal

Power Terminal (Pin 1~2 from left to right)	Pin	Description
	Pin1	0V
	Pin2	DC24V

3.2 DB9 Serial Interface

	Pin	COM1(RS485)	COM1(RS422)	COM1(RS232)	COM3(RS232)
	Pin1	Rx-(B)	Rx-(B)		
	Pin2			RxD	
	Pin3			TxD	
	Pin4		Tx-		
	Pin5	GND	GND	GND	GND
	Pin6	Rx+(A)	Rx+(A)		
	Pin7				RxD
	Pin8				TxD
	Pin9		Tx+		

3.3 RS485 Interface

RS485 (Pin1~Pin2 from left to right)	Pin	Description
	Pin1	A+ (COM2 RS485)
	Pin2	B- (COM2 RS485)

3.4 Ethernet Port

RJ45 port for Ethernet communication with the controller or server.



3.5 USB Type-C 2.0 Port

USB Slave port, Used for program download.

USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner (needs equipping Type-C and USB Type-A conversion line).



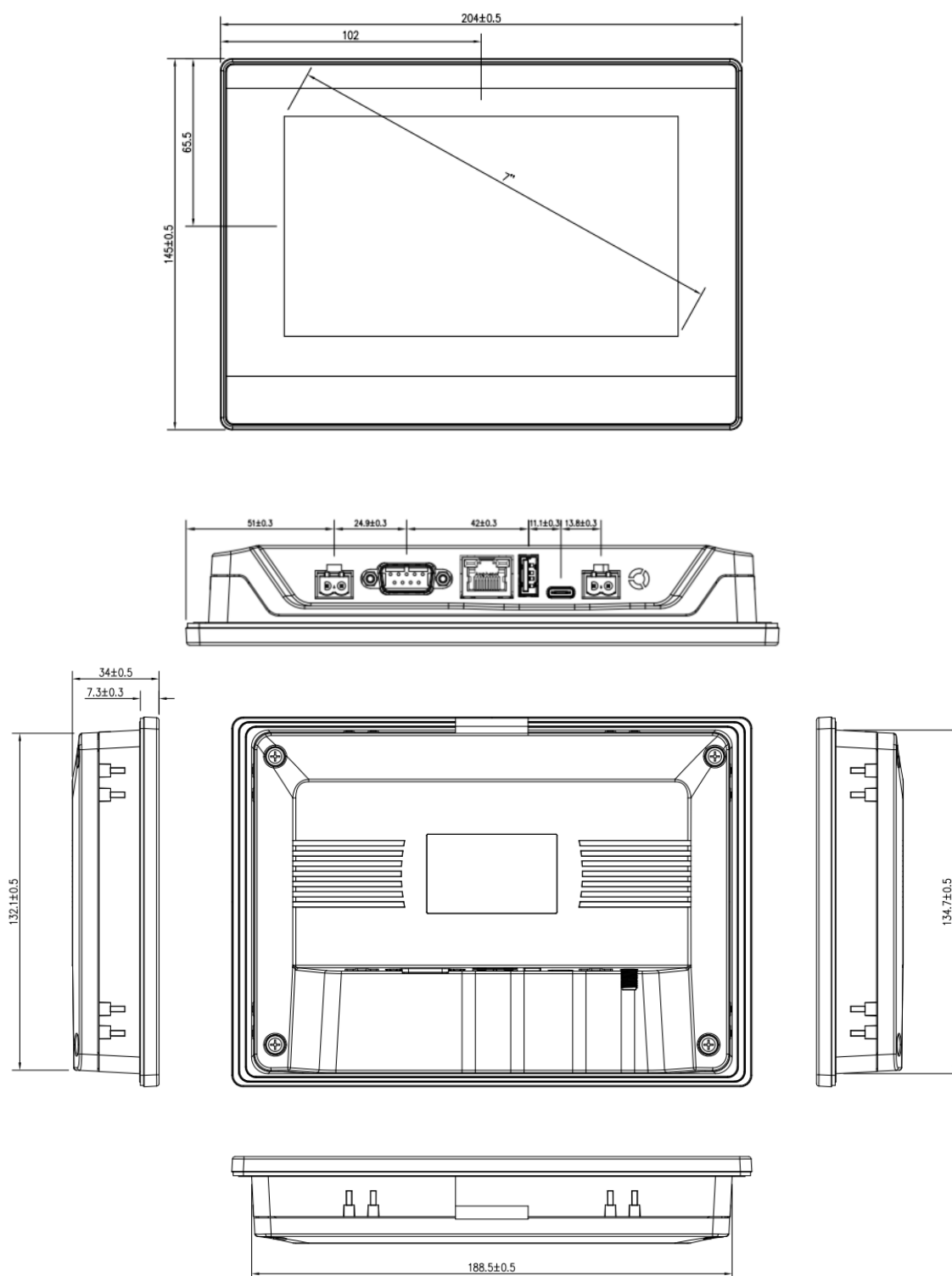
3.6 USB Type-A 2.0 Port

USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner.



4 Dimension

Unit: mm



Flush-mounted installation cutout dimensions: $190 \times 136 (+1.5 \text{ mm} / -0.0 \text{ mm})$

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The 7100W is a product model of the 7000 Series HMIs that supports diverse ports, including USB and DB-9.

1.2 Product Appearance

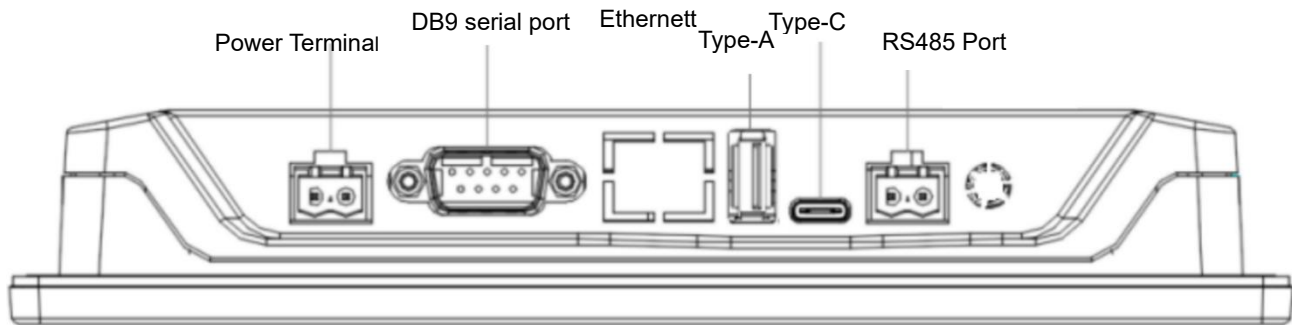


2 Specifications

category	Item	Descripton
Hardware	Display	10.1" 16:9 TFT LCD
	Resolution	1024×600
	Colors	24-bit
	Brightness	400cd/m ²
	Backlight	LED
	LCD Lifetime	50000 hours
	Touch Panel	4-wire industrial resistive touch panel
	CPU	Cortex-A7(main frequency is 1GHz,dual-core)
	Storage	128MB DDR3+4GB eMMC
	RTC	Built-in
	Ethernet	NA
	SD Card	NA
	Bluetooth	NA
	USB Port	1*USB Type-C 2.0 OTG port;1*USB Type-A 2.0port
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category	Item	Descripton
		certified;RoHS certified;lightning surge $\pm 1\text{kV}$;group pulse $\pm 2\text{kV}$;electrostatic contact 4kV ,air discharge 8kV
Environmental requirements	Operating Temperature	$0\sim 50^{\circ}\text{C}$
	Storage Temperature	$-20\sim 60^{\circ}\text{C}$
	UV Resistance	Operating in high UV environment is prohibited(e.g.,in direct sunlight)
	Environmental Humidity	$10\%\sim 90\%\text{RH}$ (non-condensing)
	Vibration Endurance	$10\sim 25\text{Hz}$ (X/Y/Z direction,2G/30 minutes)
	Cooling Method	Natural air cooling
Mechanical feature	Protection Level	Front:IP65(with flush panel cabinet installation),Rear:IP20
	Enclosure Material	Engineering plastic
	Cutout Dimensions	$260\text{mm}\times 202\text{mm}$
	Dimensions	$273\text{mm}\times 213\text{mm}\times 36\text{mm}$
	Weight	About 890g

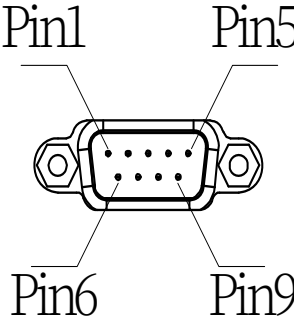
3 Wiring Definition



3.1 Power Terminal

Power Terminal (Pin 1~2 from left to right)	Pin	Description
	Pin1	0V
	Pin2	DC24V

3.2 DB9 Serial Interface

	Pin	COM1(RS485)	COM1(RS422)	COM1(RS232)	COM3(RS232)
	Pin1	Rx-(B)	Rx-(B)		
	Pin2			RxD	
	Pin3			TxD	
	Pin4		Tx-		
	Pin5	GND	GND	GND	GND
	Pin6	Rx+(A)	Rx+(A)		
	Pin7				RxD
	Pin8				TxD
	Pin9		Tx+		

3.3 RS485 Interface

RS485 (Pin1~Pin2 from left to right)	Pin	Description
	Pin1	A+ (COM2 RS485)
	Pin2	B- (COM2 RS485)

3.4 USB Type-C 2.0 Port

USB Slave port, Used for program download.

USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner (needs equipping Type-C and USB Type-A conversion line).



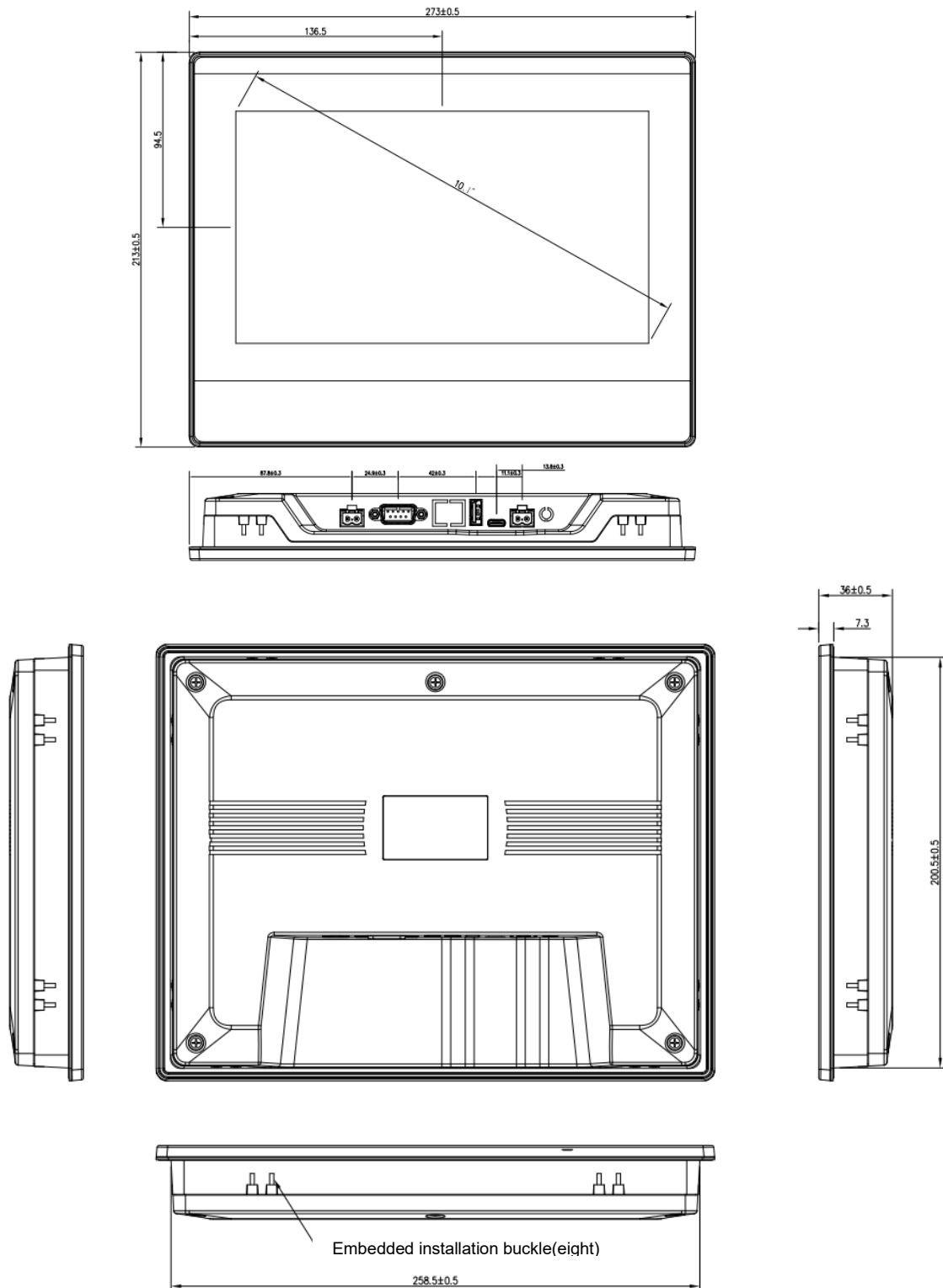
3.5 USB Type-A 2.0 Port

USB Host port, Used for connecting peripheral devices, such as Flash drive or bar code scanner.



4 Dimension

Unit: mm



Flush-mounted installation cutout dimensions: $260\text{mm} \times 202\text{mm}$