HMI 7000 Series

Model: **VC7070WE**

Products Overview

VC7000 series HMI is new generation IOT HMI, it is with high performance, industrial ABS economic frame, low cost, high reliability. Fully new cover mold setting, optimize back cover design in 6000 series HMI, removing back cover design, adding some antenna holes to increase products design, and more resolution models can be selected to meet different application needs.

VC7070WE is traditional HMI products by optimizing 1G, 4-core A7 processer, it is with quite high resolution and applicable for various industrial production scene.

Products Outlook

Products Specifications

Hardware Parameters	Touch Screen	7" 16:9 TFT LCD touch screen
	Resolution	1024×600
	Color	24-bit
	Brightness	350 cd/m²
	Backlight	LED
	LCD life	50000 hours
	Touch Screen	4-wire industrial Touch Screen
	CPU	1GHz，4-core CortexTM-A7
	Memory	4GB Flash + 128M DDR3
	RTC	Built-in
	Ethernet	1-line 10M/100M adaptable
	SD Card	Supporting
	USB Ports	1 Type-C OTG interface
	Program Downloading	USB Slave/U-disc
	Serial Communication Port	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232
	LCD View Angle (T/B/L/R)	85'/85'/85'/85'
Electric Specifications	Rated Power	< 10W
	Rated Voltage	DC24V, working range DC 9V~28V
	Power Protection	It is with lightening and surging protection
	Power Loss	< 5mS
	CE & RoHS	It confirms to EN61000-6-2:2005，EN61000-6-4:2007 standard Confirms to RoHS, lightening and surging±1KV,group pulse ±2KV, Static contact 4KV, air discharge: 8KV
Environment Specifications	Working Temperature	0~50℃
	Storage Temperature	-20~60℃
	Anti-violet	It prohibits working under strong violet (such as direct sunshine).
	Environment Humidity	10~90%RH(non condensate)
	Anti-vibraiton	10~25Hz(X,Y, Zdirection 2G/30 minutes)
	Cooling	Natural Cooling
Mechanical Parameters	Protection Grade	Front panel confirms to IP65(equip with flat cabinet installation),back cover confirms to 20
	Mechanic	Plastic Engineering

	Structure	
	Hole Size	192mm×138mm
	Machine Size	204mm×145mm×34mm (difference±0.5mm)
	Machine Size	About 472 g

Wiring Definition

Power Terminals   DB9 Serial Ports   Type-C   Wiring Terminals

Power Terminals (Pin1~2 from left to right)

	Pin1	0V
	Pin2	DC24V

DB9 serial Ports

	Pin	COM1	COM3
Pin1 Pin5	Pin1	Rx-(B） (RS422/485-)	
	Pin2	RxD (RS232)	
	Pin3	TxD (RS232)	
	Pin4	Tx- (RS422)	
	Pin5	GND	
	Pin6	Rx+(A) (RS422/485+)	
Pin6 Pin9	Pin7		RxD (RS232)
	Pin8		TxD (RS232)
	Pin9	Tx+ (RS422)	

485Terminals(Pin1~2 from left to right)

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

EEthernet Ports

	RJ45	Used to Ethernet communication with controllers or used for server connection.

Type-C OTG Interface

	Type-C	Slave Ports Function: used for program downloading and testing.

		Main Ports: used for U-DISC connection, scanner etc(it needs equip Type C and USB Type A conversion line).
Antenna Terminals		
		Antenna Ports(IOT function model with open antenna hole).

Size　VC7070WE

51±0.3 24.9±0.3 27.4±0.3 26.7±0.3 13.8±0.2 13±0.3

34±0.5

7.3±0.3

132.1±0.5

134.7±0.5

188.5±0.5