Resistive HMI VC4000 Series

Module: VC4043E

Overview

- Metal enclosure, better heat dissipation and stronger anti-interference ability.
- The main board is treated with a special coating (three anti-paint) to adapt to harsh Environment.
- High resolution, high brightness, LED backlight, more energy saving and environmental Protection.
- Streamlined two-way communication ports. The USB host port supports U disk to storage and download data.
- New configuration software, rich library, powerful features.
- 2-way serial port, with Ethernet, more powerful expansion function.

Appearance









Specifications

Resolution(WxH) 480×272 Colors 24-bit 300 cd/m² Backlight LED LCD Life 50000 hours Touch Panel 4 wires resistive touch screen(Surface hardness 4H) Hardware Parameter Memory 128M Flash + 128M DDR3 RTC Built in Ethernet 10/100M auto adaptation USB Port USB Slave 2.0 Port*1,USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet COM Port COM1:R5232/R5485/R5422, COM3:RS232 LCD viewing angle (T/B/L/R) So/70/70'/70' Input Power Down Allowed 5 smS Power Potection Protected from thunderstrike and surging Power Down Allowed 5 smS CE & ROHS Complied with EN61000-6-2:2005, EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD-4KV, Air:8KV Poperating Temperature -20°70C Storage Temperature -30°80C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Vibration Endurance 10°25Hz (X,7z direction 2G/30min) Cooling Natural air cooling Penel Cutout 120mm×93mm Dimension 128mm×102mm×32mm					
Colors 24-bit		Display			
Brightness 300 cd/m²		Resolution(WxH)	480×272		
Backlight LED LCD Life 50000 hours Touch Panel 4 wires resistive touch screen(Surface hardness 4H) CPU 600MHz ARM Cortex-A8 Memory 128M Flash + 128M DDR3 RTC Built in Ethernet 10/100M auto adaptation USB Port USB Slave 2.0 Port*1,USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet COM Port COM3:RS232 LCD viewing angle (T/B/L/R) 50'/70'/70'/0' Flectrical Specifications Power Consumption STM Input Power DC24V, Working range DC 9V~28V Power Down Allowed SmS CE & ROHS Complied with EN61000-6-2:2005,EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature -30°80C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10°90%RH (no condensate) Vibration Endurance 10°25Hz (X,Y,Z direction 2G/30min) Cooling Natural air cooling Mechanical Index Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm		Colors	24-bit		
LCD Life S0000 hours		Brightness	300 cd/m ²		
Hardware Parameter Parameter CPU 600MHz ARM Cortex-A8		Backlight	LED		
Hardware Parameter Memory 128M Flash + 128M DDR3 RTC Built in Ethernet 10/100M auto adaptation USB Port USB Slave 2.0 Port*1,USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet COM Port COM1:RS232/RS485/RS422, COM3:RS232 LCD viewing angle (T/B/L/R) Power Consumption Specifications Power Consumption Input Power DC24V, Working range DC 9V~28V Power Power Allowed SmS CE & RoHS Complied with EN61000-6-2:2005,EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature -30~80C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity Vibration Endurance Cooling Natural air cooling Degree of Protection Pront IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout Dimension 128mm×102mm×32mm		LCD Life	50000 hours		
Parameter Memory 128M Flash + 128M DDR3		Touch Panel	4 wires resistive touch screen(Surface hardness 4H)		
RTC Built in Ethernet 10/100M auto adaptation USB Port USB Slave 2.0 Port*1,USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet COM Port COM1:RS232/RS485/RS422, COM3:RS232 LCD viewing angle (T/B/L/R) 50'/70'/70'/70' Power Consumption <5W Input Power Down Allowed <5mS CE & ROHS Complied with EN61000-6-2:2005,EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature -30°80C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10°90%RH (no condensate) Vibration Endurance 10°90%RH (no condensate) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm	Hardware	CPU	600MHz ARM Cortex-A8		
Ethernet 10/100M auto adaptation USB Port USB Slave 2.0 Port*1, USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet COM Port COM1:RS232/RS485/RS422, COM3:RS232 LCD viewing angle (T/B/L/R) 50'/70'/70' Power Consumption < 5W Input Power Down Allowed < 5mS CE & ROHS Complied with EN61000-6-2:2005, EN61000-6-4:2007, ROHS, Surge Immunity:±1kV, EFT:±2kV, ESD:4kV, Air:8kV Operating Temperature -20"70C Storage Temperature -30"80C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10"90%RH (no condensate) Vibration Endurance 10"25Hz (X,V,Z direction 2G/30min) Cooling Natural air cooling Degree of Protection Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm	Parameter	Memory	128M Flash + 128M DDR3		
USB Port Download Project USB Slave 2.0 Port*1,USB Host 2.0 Port*1 Download Project USB Slave Port/U-disk/Ethernet COM1:RS232/RS485/RS422, COM3:RS232 LCD viewing angle (T/B/L/R) Power Consumption Input Power Power Protection Protected from thunderstrike and surging Power Down Allowed SmS CE & RoHS Complied with EN61000-6-2:2005,EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature Storage Temperature Specifications Anti-UV Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity Vibration Endurance Cooling Natural air cooling Degree of Protection Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout Dimension 128mm×102mm×32mm		RTC	Built in		
Download Project COM Port COM1:RS232/RS485/RS422, COM3:RS232 LCD viewing angle (T/B/L/R) Power Consumption Input Power Protection Protected from thunderstrike and surging Power Down Allowed CE & RoHS CE & RoHS Operating Temperature Specifications Poperating Temperature Specifications Anti-UV Anti-UV Operating Humidity Operating Humidity Vibration Endurance Cooling Degree of Protection Mechanical Index Panel Cutout Dimension USB Slave Port/U-disk/Ethernet COM1:RS232/RS485/RS422, COM1:RS232/RS485/RS422, COM1:RS232/RS485/RS422, COM1:RS232/RS485/RS422, COM3:RS232 S0/'70'/70'/70' Toy CSW Power Consumption <		Ethernet	10/100M auto adaptation		
COM Port COM1:RS232/RS485/RS422, COM3:RS232 LCD viewing angle (T/B/L/R) Power Consumption Input Power Power Protection Protected from thunderstrike and surging Power Down Allowed CE & RoHS Complied with EN61000-6-2:2005,EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature -20~70C Storage Temperature -30~80C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity Operating Humidity 10~90%RH (no condensate) Vibration Endurance Cooling Natural air cooling Degree of Protection Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout Dimension 128mm×102mm×32mm		USB Port	USB Slave 2.0 Port*1,USB Host 2.0 Port*1		
COM Port COM3:RS232 LCD viewing angle (T/B/L/R) Power Consumption Input Power Power Protection Power Down Allowed CE & RoHS Complied with EN61000-6-2:2005,EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature Specifications Power Down Allowed CE & RoHS Complied with EN61000-6-2:2005,EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature -20~70C Storage Temperature Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity Operating Humidity 10~90%RH (no condensate) Vibration Endurance Cooling Natural air cooling Degree of Protection Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout Dimension 128mm×102mm×32mm		Download Project	USB Slave Port/U-disk/Ethernet		
LCD viewing angle (T/B/L/R) Power Consumption Input Power Power Protection Power Down Allowed Electrications Power Down Allowed Environmental Specifications Environmental Specifications Environmental Specifications Environmental Specifications Mechanical Index LCD viewing angle (T/B/L/R) Power Consumption Power Down Allowed Storage Temperature -20~70C Storage Temperature -30~80C Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance Cooling Natural air cooling Pogree of Protection Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout Dimension L28mm×102mm×32mm		COMP	COM1:RS232/RS485/RS422,		
Electrical Power Consumption C24V, Working range DC 9V~28V		COM Port	COM3:RS232		
Power Consumption C5W		LCD viewing angle	F0(/701/701/701		
Input Power DC24V, Working range DC 9V~28V		(T/B/L/R)	50'//0'//0'//0'		
Power Protection Protected from thunderstrike and surging		Power Consumption	< 5W		
Specifications Power Down Allowed < 5mS CE & RoHS CE & RoHS Operating Temperature		Input Power	DC24V, Working range DC 9V~28V		
CE & RoHS CE & RoHS Complied with EN61000-6-2:2005,EN61000-6-4:2007, ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature -20~70C Storage Temperature -30~80C Anti-UV Operating Humidity 10~90%RH (no condensate) Vibration Endurance Cooling Natural air cooling Degree of Protection Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout Dimension 128mm×102mm×32mm		Power Protection	Protected from thunderstrike and surging		
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ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV Operating Temperature -20~70C Storage Temperature -30~80C Anti-UV Not suitable to work in strong ultraviolet light (such as direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30min) Cooling Natural air cooling Degree of Protection Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm		CE & RoHS	Complied with EN61000-6-2:2005,EN61000-6-4:2007,		
Environmental Specifications Environmental Specifications Anti-UV Operating Humidity Vibration Endurance Cooling Degree of Protection Mechanical Index Mechanical Index Panel Cutout Dimension Storage Temperature -30~80C Not suitable to work in strong ultraviolet light (such as direct sunlight) 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30min) Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm			ROHS, Surge Immunity:±1KV, EFT:±2KV, ESD:4KV, Air:8KV		
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Environmental Specifications Anti-UV direct sunlight) Operating Humidity 10~90%RH (no condensate) Vibration Endurance 10~25Hz (X,Y,Z direction 2G/30min) Cooling Natural air cooling Degree of Protection Front IP65 (with NEMA panel, Back IP20) The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm		Storage Temperature	-30~80C		
Specifications Degrating Humidity 10~90%RH (no condensate)		Anti-UV	Not suitable to work in strong ultraviolet light (such as		
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Mechanical Index Enclosure The front panel is made of aluminum alloy, the surface is hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm		Cooling	Natural air cooling		
Mechanical Index Enclosure hardened and oxidized, the back shell is galvanized, and the surface is powdered. Panel Cutout Dimension 128mm×102mm×32mm		Degree of Protection			
Mechanical Index the surface is powdered. Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm			The front panel is made of aluminum alloy, the surface is		
Index Panel Cutout Dimension the surface is powdered. 120mm×93mm 128mm×102mm×32mm			hardened and oxidized, the back shell is galvanized, and		
Panel Cutout 120mm×93mm Dimension 128mm×102mm×32mm			the surface is powdered.		
		Panel Cutout	120mm×93mm		
Weight About 500g		Dimension	128mm×102mm×32mm		
Weight Mout 300g		Weight	About 500g		

Wiring definition

Power Terminal (Pin1~	Pin3 from left to righ	t)				
		Pin1	FG			
		Pin2	OV			
		Pin3	DC24V			
DB9 Serial Terminal (Pi	n1~Pin9 from left to	right)				
		Pin1	Rx-(B)			
Pin1	Pin5	Pin2	RxD (COM1 RS232)			
		Pin3	TxD (COM1 RS232)			
		Pin4	Тх-			
\bigcirc		Pin5	GND			
		Pin6	Rx+(A)			
/		Pin7	RxD (COM3 RS232)			
Pin6	Pin9	Pin8	TxD (COM3 RS232)			
1 110		Pin9	Tx+			
USB Host						
		USB Type A	Used to connect U disk, scan code gun and other peripherals			
USB Slave						
		Micro USB	Used to download programs and			
	-9	WIICIO O3D	debug			
Ethernet Port						
		RJ45	Used to set Ethernet with controller or connect to a server			
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