

VI20 HMI



VEICHI

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Official Website

*Version: Y6/2-06

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Stock code: 688698

About Us



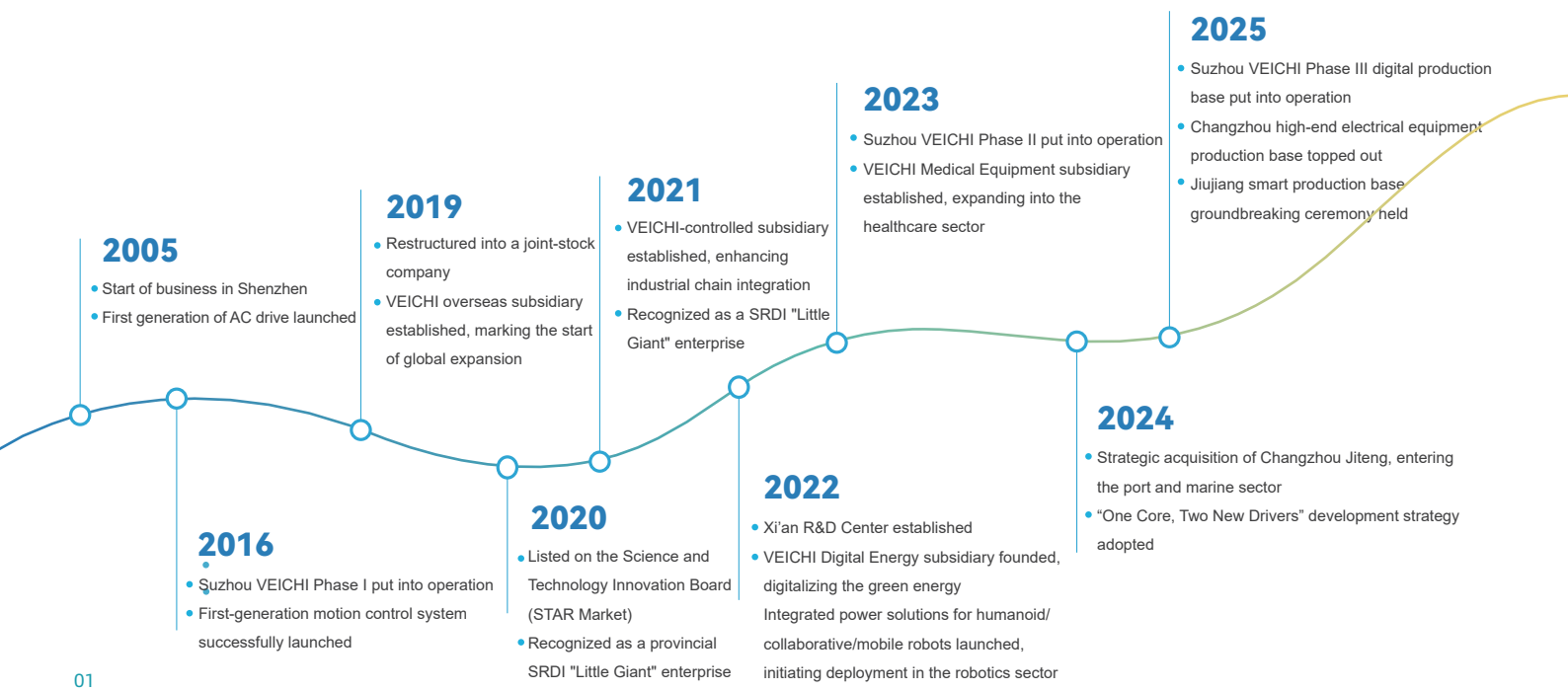
VEICHI Electric (Stock Code: 688698) has been dedicated to electric drives and industrial control since its establishment. As a high-tech enterprise integrating R&D, manufacturing, and sales of industrial automation products, VEICHI is committed to becoming a leading global provider of smart industry and green energy solutions. With R&D centers in Suzhou, Shenzhen, and Xi'an, manufacturing bases in Suzhou, Changzhou, and Jiujiang, and wholly owned subsidiaries overseas, VEICHI serves customers in multiple countries and regions by delivering competitive, safe, and reliable products and services.

Guided by its "One Core, Two New Drivers" strategy, VEICHI takes industrial automation as its core business, with a product portfolio covering AC drives, servo systems, and control systems. Its solutions are widely used in heavy industry, light industry, high-end equipment, and other sectors, helping manufacturers accelerate digital and intelligent transformation with scenario-based solutions. At the same time, VEICHI is actively developing two new growth drivers: embodied intelligence and green energy. In embodied intelligence, the company provides competitive, self-developed core actuator solutions for humanoid robots, collaborative robots, and mobile robots. In green energy, VEICHI is deepening its presence in photovoltaics, energy storage, hydrogen energy, and other application scenarios, committed to "connecting every device to green power." This creates a synergistic growth model in which its core business and new growth drivers reinforce each other.

Through long-term independent R&D and continuous innovation, VEICHI has built a strong portfolio of proprietary technologies and patents. Its core capabilities include motor vector control, silicon carbide applications, high-frequency injection control, motor parameter identification, motor protection, flying-start control, high-speed field weakening, V/F scalar control, high-density water-cooling design, and IGBT drive protection. As of December 31, 2025, VEICHI had been granted 239 patents, including 70 invention patents.

Over more than two decades of steady development, VEICHI has earned recognition from national and industry authorities, including honors such as High-Tech Enterprise, Postdoctoral Research Workstation, Jiangsu Engineering Technology Research Center, Jiangsu Provincial Enterprise Technology Center, and Jiangsu Industrial Internet Development Demonstration Enterprise — Benchmark Factory.

Looking ahead, VEICHI will continue to uphold its mission of "Driving Smart Industry, Co-creating a Green Future." The company will further advance key core technologies, accelerate product innovation, and expand into high-performance, high-quality, and high-reliability applications, contributing to the development of smart industry and green energy worldwide.



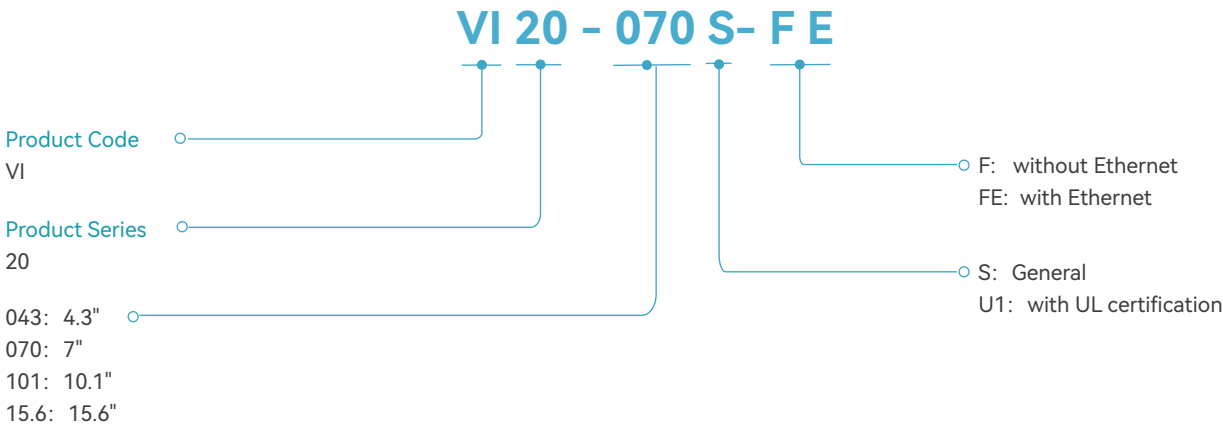
VI20 HMI

VEICHI VI20 series is a new generation of IoT HMI, with industrial ABS plastic housing which is economic and firm; new molding with downward wiring outlet for higher convenience; redesigned front face for better looking; and higher resolution for customers to choose.

FLink IoT module now is optional with which an IoT HMI is immediately here to offer complete industrial cloud platform service.



Model Description



Product Features

High definition, High brightness,
Panoramic view

High-definition, high-brightness liquid crystal display with a maximum viewing angle of 170°.

4.3" 800×480 250 cd/m²

7" 1024×600 350 cd/m²

10.1" 1024×600 400 cd/m²



Edge computing

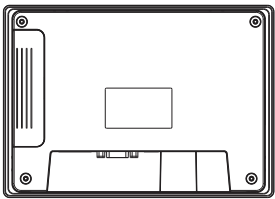
Embedded edge computing, Software

300+ protocols for local parsing

VPN and Routing

Data storage

MQTT



FLink IOT expansion

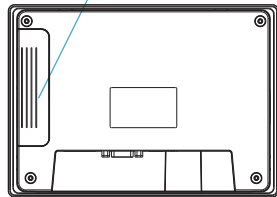
Remote configuration of device data via FLink

Remote download via PLC

Data configuration
Slots for expansion modules are:
FLink, FLink-2G(-A), FLink-4G(-A),
FLink-4G(-C), FLink-WiFi(-A)

History record query

Alarm setting



FlexCloud

Strong SAAS platform based on B/S architecture

Configuration monitoring

Map monitoring

Data report

Mobile APP

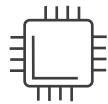


Technical Specification

	Model	VI20-043S-F2	VI20-070S-F	VI20-070S-FE	VI20-101S-F	VI20-101S-FE	VI20-156S-FE
Hardware Parameter	Display	4.3"16:9 TFT LCD	7"16:9 TFT LCD		10.1"16:9 TFT LCD		15.6"16:9 TFT LCD
	Resolution	800×480	1024×600				1920×1080
	Color	16-bit	24-bit				65K
	Brightness	250 cd/m²	350 cd/m²		350 cd/m²	400 cd/m²	250 cd/m²
	Backlight		LED				
	LCD life		50000 hours				
	Touch screen		4-wire industrial resistive touch screen				
	CPU	1GHz, dual-core Cortex-A7	600MHz ARM Cortex-A8				1G ARM Cortex-A8
	Memory	128MB Flash + 128MB DDR3	128MB Flash+128MB DDR3				256MB Flash+ 512MB DDR3
	RTC	With	Built-in real-time clock				
	SD card	None					Micro SD(TF) card
	Ethernet	None	None	1 x 10M/100M	None	1 x 10M/100M	2 x 10M/100M
	USB	1 x Type-C OTG	1xUSB Slave 2.0; 1xUSB Host 2.0				
	Download	USB Slave/USB flash disk (adaptor needed)	USB Slave/USB flash disk	USB Slave/USB flash disk/ Ethernet	USB Slave/USB flash disk	USB Slave/USB flash disk/ Ethernet	USB Slave/USB flash disk/ Ethernet
Serial communication	COM1:RS232/RS485/RS422 COM3:RS232	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232	COM1:RS232/RS485/RS422 COM3:RS232	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232	COM1/COM3: RS232/RS485/RS422 COM2:RS485/RS422	
LCD viewing angle (T/B/L/R)	80°/80°/80°/80°	85°/85°/85°/85°					
Electrical Specification	Rated power	<5W	<10W				<18W
	Rated voltage		DC24V, operating voltage DC 9V~28V				DC24V, operating voltage DC 18V~28V
	Power protection		Lightning surge protection				Power isolation module with lightning surge protection
	Allowable power loss		<5ms				
	CE&RoHS	CE & RoHS In accordance with EN61000-6-2:2005, EN61000-6-4:2007; Lightning surge ±1KV, and group pulse ±2KV in accordance with RoHS Electrostatic contact 4KV, and air discharge 8KV in accordance with EMC RoHS					
Environment Requirement	Operating temperature	0~50℃					
	Storage temperature	-20~60℃					
	UV protection	No working in strong UV environment (e.g. direct sunlight)					
	Ambient humidity	10~90%RH (no condensation)					
	Vibration resistance	10~25Hz (2G/30m in X, Y, Z direction)					
Mechanical Index	Cooling method	Natural air cooling					
	Installation method	Embedded mounting / VESA mounting					
	Protection class	IP65 in front panel (for installation with leveling panel cabinet) IP20 in rear housing					
	Mechanical structure	Engineering plastic					Metal
	Opening size	132mm×80mm	192mm×138mm		260mm×202mm		380mm×245mm
	Overall dimension	138mm×86mm×32mm	204mm×145mm×33.8mm		273mm×213mm×36mm		394mm×256mm×36mm
Weight	About 300g	About 560g		About 890g		About 2250g	

Upgraded Models Available

VI20-070U1-FE is a typical HMI adopting 1G and 4-core A7 processor, and a high resolution screen, which can be used in various industrial production scenarios. Its UL certificated U1 screen brings better performance and satisfies more needs.



1GHz processor and dual-core Cortex-A7 for higher performance and faster processing



4GB eMMC + 128MB DDR larger memory



Higher resolution and brightness



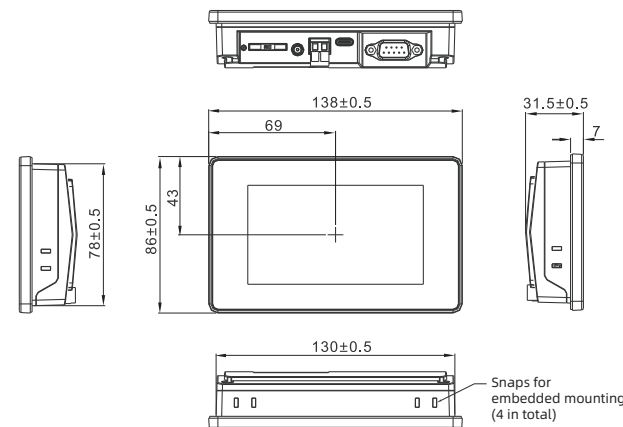
UL and CE certified screen for global market

Technical Specification

	Model	VI20-070U1-F	VI20-070U1-FE	VI20-101U1-F	VI20-101U1-FE
Hardware Parameter	Display	7" 16:9 TFT LCD	7" 16:9 TFT LCD	10.1" 16:9 TFT LCD	10.1" 16:9 TFT LCD
	Resolution	800×480	1024×600	1024×600	1024×600
	Color	24-bit	24-bit	24-bit	24-bit
	Brightness	350 cd/m²	350 cd/m²	400 cd/m²	400 cd/m²
	Backlight	LED			
	LCD life	50000 hours			
	Touch screen	4-wire industrial resistive touch screen			
	CPU	1GHz, dual-core Cortex-A7	1GHz, dual-core Cortex-A7	1GHz, dual-core Cortex-A7	1GHz, dual-core Cortex-A7
	Memory	4GB eMMC + 128MB DDR	4GB eMMC + 128MB DDR	4GB eMMC + 128MB DDR	4GB eMMC + 128MB DDR
	RTC	Built-in real-time clock	Built-in real-time clock	Built-in real-time clock	Built-in real-time clock
	Ethernet	None	1 x 10M/100M	None	1 x 10M/100M
	USB	1 x Type-C OTG 1 x USB Type A	1 x Type-C OTG 1 x USB Type A	1 x Type-C OTG 1 x USB Type A	1 x Type-C OTG 1 x USB Type A
	Serial communication	COM1: RS232/RS485/RS422 COM3: RS232	COM1:RS232/RS485/RS422 COM2:RS485 COM3:RS232		
Electrical Specification	LCD viewing angle (T/B/L/R)	50°/70°/70°/70°	85°/85°/85°/85°	85°/85°/85°/85°	85°/85°/85°/85°
	Rated power	<10W			
	Rated voltage	DC24V, operating voltage DC 9V~28V			
	Power protection	Lightning surge protection			
	Allowable power loss	<5ms			
Environment Requirement	CE&RoHS	CE & RoHS In accordance with EN61000-6-2:2005,EN61000-6-4:2007; Lightning surge ±1KV, and group pulse ±2KV in accordance with RoHS Electrostatic contact 4KV, and air discharge 8KV in accordance with EMC			
	Operating temperature	0~50℃			
	Storage temperature	-20~60℃			
	UV protection	No working in strong UV environment (e.g. direct sunlight)			
	Ambient humidity	10~90%RH (no condensation)			
Mechanical Index	Vibration resistance	10~25Hz (2G/30m in X, Y, Z direction)			
	Cooling method	Natural air cooling			
	Installation method	IP65 in front panel (for installation with leveling panel cabinet) IP20 in rear housing			
	Mechanical structure	Engineering plastic			
	Opening size	190mm×136mm	190mm×136mm	260mm×202mm	260mm×202mm
	Overall dimension	204mm×145mm×34mm (±0.5mm)	204mm×145mm×34mm (±0.5mm)	273mm×213mm×36mm (±0.5mm)	273mm×213mm×36mm (±0.5mm)
	Weight	about 476g	about 472g	about 890g	about 920 g

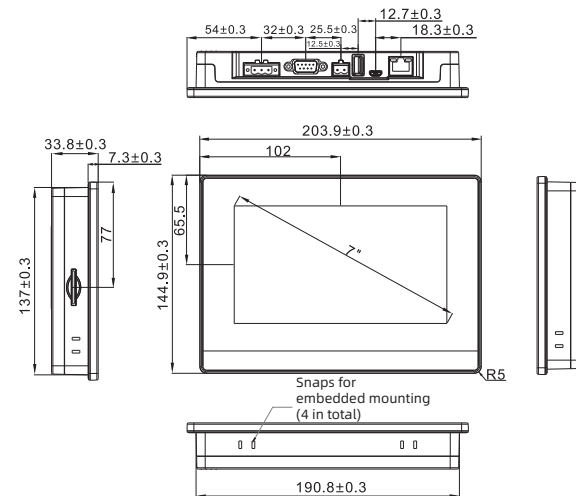
Installation Dimension

VI20-043S-F2



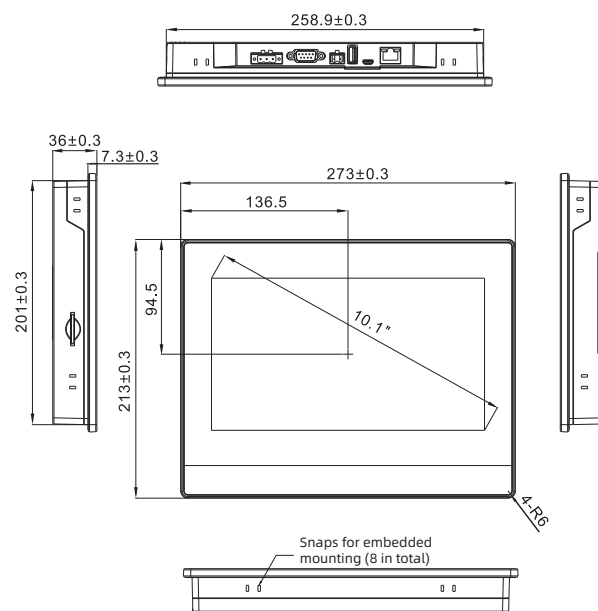
Opening size for embedded mounting: 132*80mm

VI20-070S-F/VI20-070S-FE



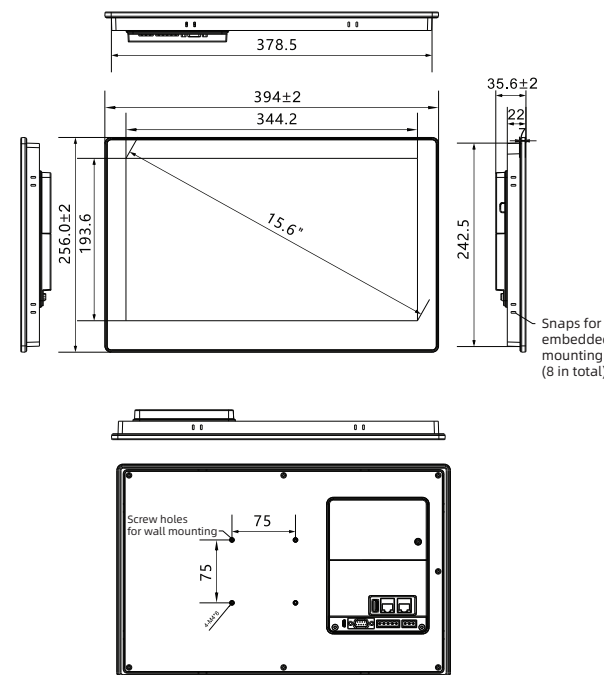
Opening size for embedded mounting: 192*138(+1.5mm/-0.0mm)

VI20-101S-F/VI20-101S-FE



Opening size for embedded mounting: 260*202(+1.0mm/-0.0mm)

VI20-156S-FE



Opening size for embedded mounting: 380mm*245mm

Service and Support

VEICHI Electric has established an integrated global service network through its innovative "Region + Industry" marketing strategy, which synergizes cross-sector resources and distribution channels to deliver comprehensive solutions. With permanent business and technical support teams strategically located across 23 major Chinese cities and overseas operations including Indian subsidiaries, the company is supported by an extensive network of 364 domestic and international distributors that ensure seamless market coverage. By consistently delivering superior product quality backed by professional technical support and service excellence, VEICHI Electric continues to enhance its global brand reputation while driving sustainable international growth through reliable, customer-centric solutions.

