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V300SERIES HMI **SELECTION GUIDE**

Stable Safe Easy-to-use **Efficient**



V300 SERIES

Exquisite appearance

New appearance design and unique style

✓ Safe and reliable

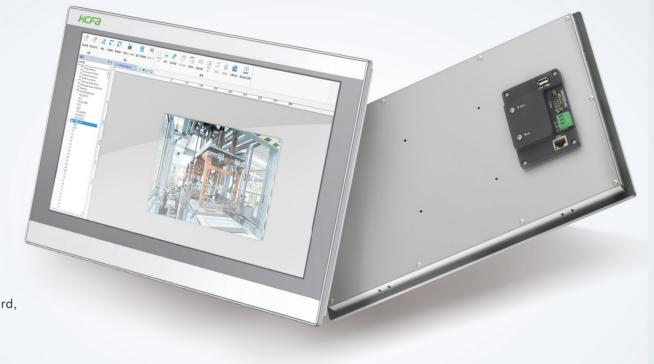
Front panel: IP65, the mainboard is coated to effectively resist moisture and dust

∀ Various sizes

4.3"/7"/10.1"/15.6"screen available; Up to 1920*1080 resolution, high-definition display

⊠ Excellent performance

Processor ARM Cortex A7/A53,
All series are equipped with Ethernet port as standard,
with wide applicability





4G network

China Mobile/China Telecom/China Unicom, more convenient networking



WIFI

Local networking, hotspot networking, low cost, easy to use



Remote monitoring

Program maintenance, monitoring, uploading and downloading



MQTT

Third-party cloud platform data monitoring and maintenance



HCFA Cloud

Cloud data monitoring and maintenance



Tag communication

Communication variable import, data interaction more intuitive, and programming efficiency improved



Program penetration

Local and remote program penetration, faster programming



Password tools

Random password, installment password, use it as you like

6 kinds are available to cover different application scenarios; All series supports Ethernet.

4G/WIFI module

V300 can be equipped with 4G and WIFI modules to realize remote operation, penetration, MQTT and other functions.



Small size and easy to use

Small size, easy to install and operate





Simple design

Just insert the IoT card and connect the antenna



| IoT expansion module

Two networking modes: 4G and WIFI; flexible combination of IoT modules; support HCFA cloud platform



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HCFA IoT Ecosystem

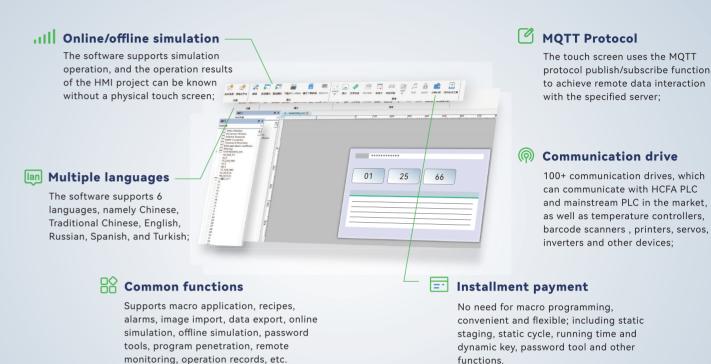
HCFA IoT platform can meet the functions of remote monitoring, data collection, remote download/monitoring of automation equipment; Realize remote operation and maintenance of automated equipment, improve work efficiency, and reduce service costs; support multi-platform remote monitoring, such as computers, tablets, mobile phones, etc.



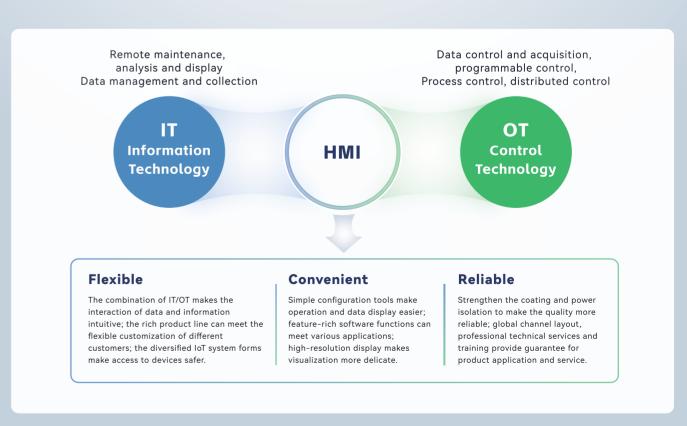
V300 HMI Configuration Software

HCFA V300 seires's programming software is [HC Touch Vpro]; simple programming style, rich and diverse functions, traditional application methods, saving development time for engineers.

Features



Information



VT-HDX remote operation and maintenance large screen configuration HMI

Processor

Quad-core A53 processor; main frequency 1.5GHZ; 8G cache/1G memory

✓ Size optimization

Small size,

Easy to install in control cabinet

™ HDMI

High-definition picture quality; free matching of screens

Remote monitoring

Remote monitoring APP; Support monitoring on mobile phones, tablets, etc.



3 network ports

WAN*1 / LAN*2。



WIFI communication

Data transfer/unlimited configuration

4G network

China Mobile/China Telecom/China Unicom



Serial port

1-ch RS232 / 2-ch RS485



Edge computing

Data collection/data analysis Logic processing/linkage control



HDMI

1080P ultra-high definition picture



USB

2-ch USB2.0



SD card

Can increase storage capacity

Supports HDMI interface and Not limited by the size of conventional touch screens.



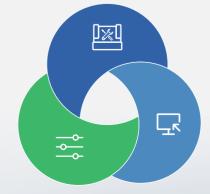
I Three major advantages

Online maintenance

Support online monitoring of HMI and its slave station data, convenient for customers to maintain equipment

Remote debugging

Support remote upload /download of HMI and controller programs to achieve remote debugging;



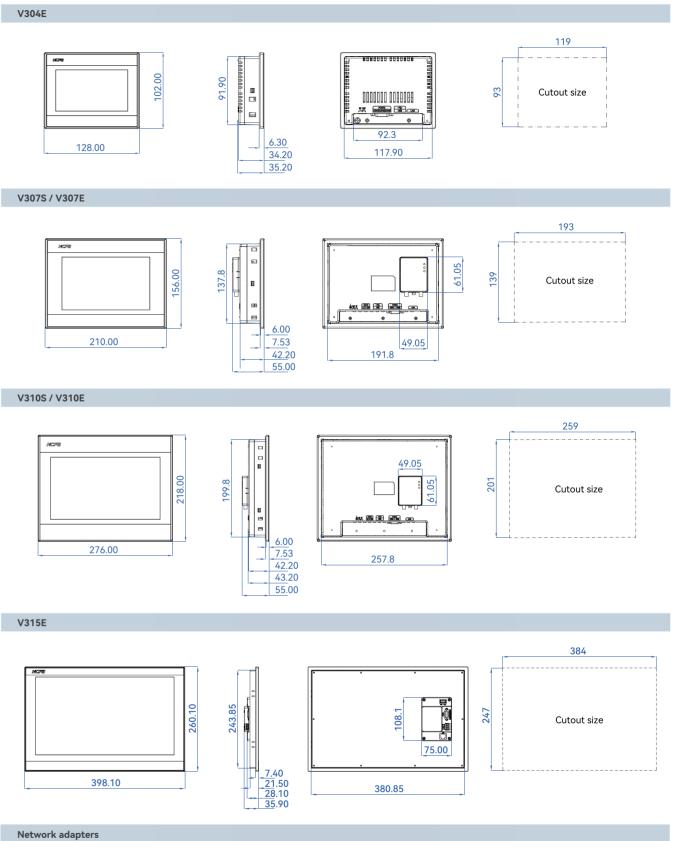
Remote monitoring/operation

Supports loading HMI screens using PC, tablet, and mobile phone applications, and remotely operates HMI through applications.

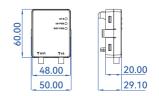
Product Specifications (V300)

I	Models	V304E	V307S	V307E	V310S	V310E	V315E
Appearance							100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Dis	splay size	4.3''	7''	7''	10.1"	10.1''	15.6''
Display	Viewing angle (T/B/L/R)	85/85/85/85	60/70/70/70	60/70/70/70	60/70/70/70	60/70/70/70	85/85/85/85
	Resolution	480*272	800*480	800*480	1024*600	1024*600	1920*1080
	Brightness(cd/m²)	350	400	400	400	400	300
	Contrast	400:1	400:1	400:1	400:1	400:1	400:1
	Backlight life (hours)	30000	50000	50000	50000	50000	50000
	Color	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
Τοι	uch screen	4-wire industrial resistive touch screen					
CPU Processor			ARM Cortex-A7 Dual core1.2Ghz				ARM Cortex-A53 Quad core1.5Ghz
	FLASH/RAM	128M+128M					8G+1G
	Ethernet port			10M/100M adapti	ve network port*1		
	USB HOST			USB	2.0*1		
I/O port	Serial Interface	COM1:RS485 COM2:RS422/485 COM3:RS232	COM1:RS485	COM1:RS485 COM2:RS422/485 COM3:RS232	COM1:RS485	COM1:RS485 COM2:RS422/485 COM3:RS232	COM1:RS485 COM2:RS422/485 COM3:RS232
	RTC	Supported					
	Buzzer	Supported					
loT	WIFI/4G	Not supported			Optional		
	Rated power	2.4W	4.8W	4.8W	7.2W	7.2W	14.4W
	Rated voltage	DC24V (-15% ~ 20%)					
Electrical	Power protection	With lightning surge protection					
pecifications	Power failure allowed	< 5ms					
	CE	Comply with EN61000-6-2:2005, EN61000-6-4:2007 standards					
	RoHS	Comply with RoHS Lightning surge ±500V, group pulse ±2KV; electrostatic contact 4KV, air discharge 8KV					
	Protection level	Front panel IP65, rear shell IP20; in compliance with national standard GB/T 4208					
	Vibration resistance Ambient	5 ~ 150Hz (X/Y/Z directions, 1g/3.5mm displacement)					
	temperature Storage	0 ~ 55°C					
	temperature Relative	-25 ~ 70°C(no condensation)					
	temperature			10% ~ 95%(no			
	CE	√ 					
Certification	ATEX UL	X					
	Mechanical	X Front panel: PET engineering plastics engineering plastic					
	structure	Back panel: Metal Panel embedded installation Panel embedded and					Panel embedded and
pecifications		110 00*02 00	103 00*120 00	193.00*139.00		250 00*201 00	VESA installation
	Cutout size Model size	119.00*93.00	193.00*139.00		259.00*201.00	259.00*201.00 276.00*218.00*43.20	384.00*247.00
		285	642		1095	1095	2650
Weight		285 642 642 1095 1095 2650 HC Touch VPro					
	load method						
Downi	ioau method			inetwork	port/USB		

Product Dimensions (V300)





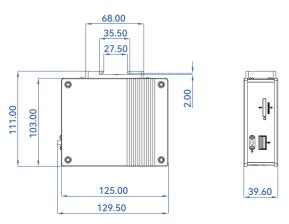


Product Specifications/Dimensions (VT-HDX)

Unit:	mm

	Models	VT-HDX-WIFI	VT-HDX-4G		
Appearance					
Processor	CPU	ARM Cortex-A	A53 Quad-core1.5GHz		
	RAM	1G			
Memory	RAM FLASH	8	G		
	SD card	Su	Supported		
Network	WAN port	*	*1		
port	LAN port	*2			
	WIFI	Supported	None		
	4G	None	Supported		
Communication interface	RS232	*	1		
	RS485	*2			
	USB	*2			
Display	HDMI	Supported			
	Input power	Input power 9–36VDC			
	Power consumption	380mA(380mA@24VDC		
Power	Power Isolation				
supply	Withstand voltage	500VAC (1 minute)			
	Insulation resistance	More than 50	MΩ@500VDC		
	External dimensions	39.6*129.	5*111mm		
Specifications	Mounting method	Guid	e rail		
Specifications	Housing material	Metal housing, black			
	Mechanical vibration 10 to 25 Hz (2G 30 minutes at X, Y, Z axis)		minutes at X, Y, Z axis)		
	Operating temperature	0-50°C (32°-122°F)			
Environment	Operating humidity	10%-90%(no condensation)			
	Storage temperature	10-60°C (-2°144°F)			
Certification	CE	1	ſ		
	PCPC Software	HC Touch Vpro			
	Remote operation and maintenance	Supported			
	Serial port protocol	Supported			
Software	Network protocol	Supported			
	HDMI display Sup		ported		
	Edge computing	Supp	ted		
	Screen configuration	Supp	orted		

VT-HDX-WIFI / VT-HDX-4G



Selection Guide

V300 series HMI

Models	Specifications			
V304E	4.3'' standard version, supports Ethernet, 3-ch serial communication, does not support 4G/WIFI function			
V307S	7'' basic version, supports Ethernet, 1-ch serial port communication, supports WIFI/4G expansion			
V307E	7" standard version, supports Ethernet, 3-ch serial communication, supports WIFI/4G expansion			
V310S	10.1" basic version, supports Ethernet, 1-ch serial port communication, supports WIFI/4G expansion			
V310E	10.1" standard version, supports Ethernet, 3-ch serial communication, supports WIFI/4G expansion			
V315E	15.6" standard version, supports Ethernet, 3-ch serial communication, does not support 4G/WIFI function			
V315E-4G	15.6" 4G version, supports Ethernet, 3-ch serial communication, and come with 4G communication function			
V315E-WIFI	15.6" WIFI version, supports Ethernet, 3-ch serial communication, and come with WIFI communication function			

V300 series remote operation and maintenance large screen configuration HMI

Models	Specifications		
V300-4G-ADP	V300 series 4G expansion module, only for 7'' and 10'' HMI		
V300-WIFI-ADP	V300 series WIFI expansion module, only for 7'' and 10'' HMI		

V300 series expansion module

Models	Specifications
VT-HDX-4G	HDMI display, 3 network ports, 3 serial ports, support 4G/WAN networking
VT-HDX-WIFI	HDMI display, 3 network ports, 3 serial ports, support WIFI/WAN networking

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