UH300 SERIES HMI

- 7" 10" optional
- Ethernet port supports smart/1200/1500
- Supports RS485,RS232 or Terminal communication

UniMAT HMI

UH HMI series are a popular Human Machine interfaces developed by UniMAT Automation Technology Co.Ltd.,7 inch and 10 inch With Ethernet port or without Ethernet and RS485 and RS232 series port . They work with function abundant

[typical products] UH 307& 310 Series

- Brand New 7 inch and 10 inch touch screen
- LED backlight, Cortex A8 processor , 600Mhz
- Ethernet interface support Siemens 1200/1500
- Rs485, RS232 interface supported
- removable terminal with removable resistance

Item NO	UH307E/UH310E	UH307S
Order NO	UH307-2EU01-0AA0 / UH310-2EU01-0AA0	UH307-2AU01-0AA0
Display size	7" TFT/10 inch	7" TFT
Display color	65536	65536
Resolution	800×480/1024×600	800×480
backlight	LED	LED
brightness	350cd/sqm	350cd/sqm
Screen type	4 wire high precision resistance net work	4 wire high precision resistance net work
Memory	256M Flash+128M DRAM	256M Flash+128M DRAM
Real time	yes	yes
USB Host	USB2.0*1	USB2.0*1
USB Slave	USB2.0*1	USB2.0*1
Series port	COM1 : RS485	COM1 : RS485
	COM2 : RS232	COM2 : RS232
Ethernet port	10M/100M self-adaption	NC
Rated Voltage	DC24V	DC24V
Dimension	203×149×32mm/273×193×39mm	203×149×32mm
Hole size	192×138mm/261×180mm	192×138mm
IP grade	IP65	IP65

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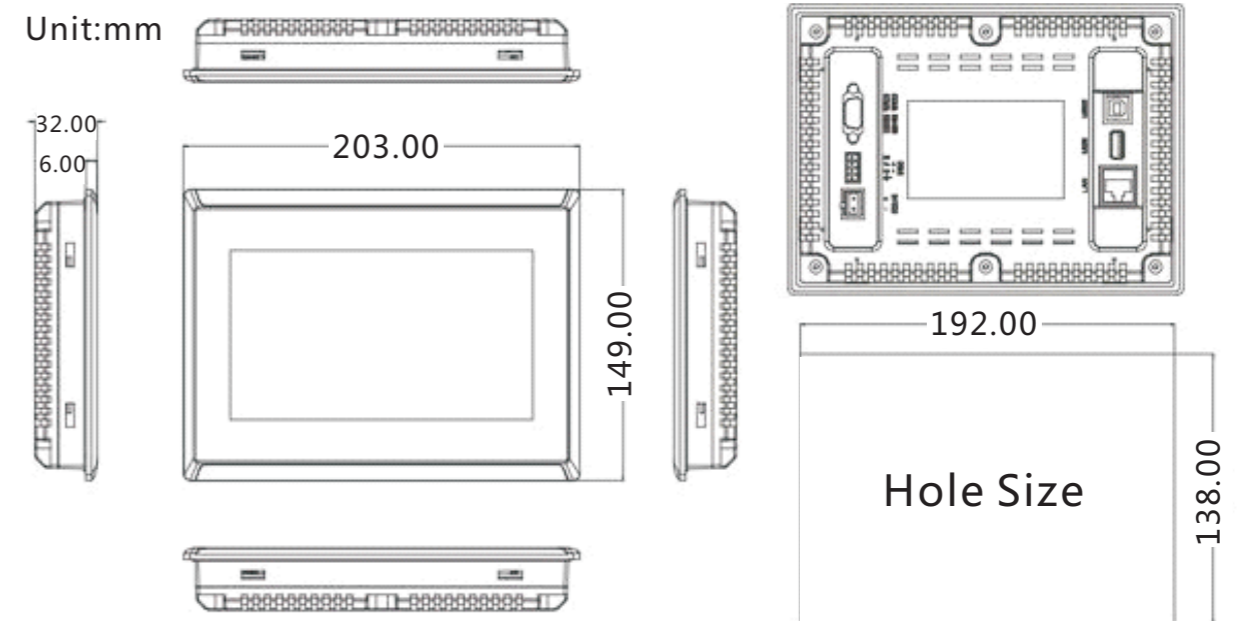- Supports RS485,RS232 or Terminal communication

[typical products] UH 407S & UH 407E Series

- 7 "800 x 480 TFT LCD, LED backlight, Cortex A8 processor , 1Ghz
- Serial port supports RS232/RS422&RS485 and Ethernet
- Front panel IP65 protection level
- RS485 supports terminal connection mode.
- Built-in terminal resistance
- Specifications

Item NO	UH407E	407S
Order NO	UH 407-4EU01-0AA0	UH 407-4AU01-0AA0
Display size	7" TFT	7" TFT
Display color	65536	65536
Resolution	800×480	800×480
backlight	LED	LED
brightness	350cd/sqm	350cd/sqm
Screen type	4 wire high precision resistance net work	4 wire high precision resistance net work
CPU	Cortex A8 1Ghz	Cortex A8 1Ghz
Memory	256M Flash+128M DRAM	256M Flash+128M DRAM
Real time	yes	yes
USB Host	USB2.0*1	USB2.0*1
USB Slave	USB2.0*1	USB2.0*1
Series port	COM1：RS485/RS422	COM1：RS485/RS422
	COM2：RS232；COM3:RS485	COM2：RS232;COM3:RS485
Ethernet port	10M/100M self-adaption	NC
Rated Voltage	DC24V	DC24V
Dimension	203×149×32mm	203×149×32mm

Item NO	UH407E	407S
Hole size	192×138mm	192×138mm
IP grade	IP65	IP65

Unit:mm

32.00
6.00
203.00
149.00
192.00
138.00

Hole Size

UH307E/UH307S

Communication port definition I

DB9				Removable terminal				
Diagram	Interface	PIN	Pin definition	Interface	PIN	Pin definition	Remarks	Diagram
		1	-		1	R	120Oterminal resistance	
		2	RS232 RXD		2	RS485+	(A)	
	COM2	3	RS232 TXD	COM2	3	RS485-	(B)	
		4	-		4	PE	Shield ground	
		5	CND				Removable terminal COM1 is the same Rs485 port as the DB9 COM1	
		6	-					
	COM1	7	RS485+(A)					
		8	RS485+(B)					
		9	-					

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[typical products] UH507W IOT Series

- Unimat cloud is mainly connected with terminal devices such as PLC/frequency converter through network or serial port lines on the device site.
- The screen collects field data and connects to the Internet through network line/wifi or 4G.
- The Internet of Things screen saves the uploaded data to the cloud server, thus realizing remote data monitoring, program maintenance and so on.
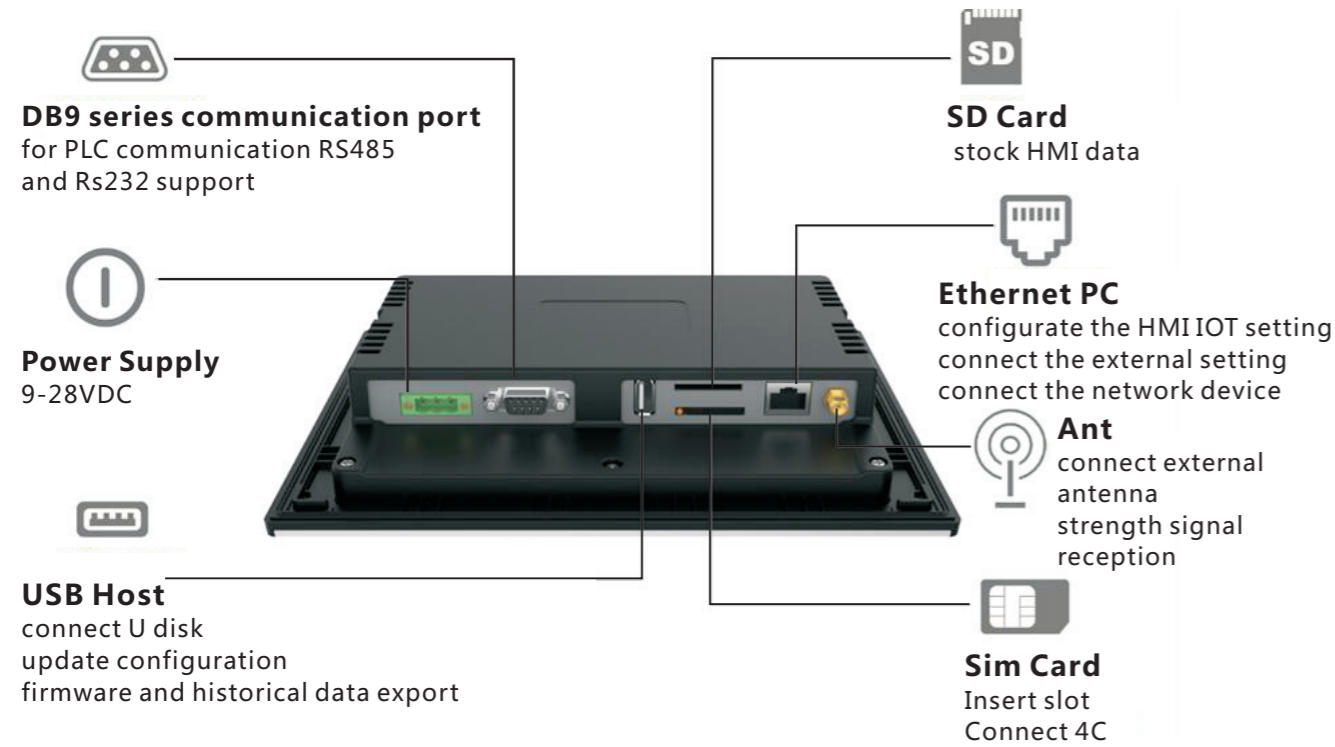
IOT HMI Specifications

Model No.	UH507W-WAN	UH507W-WF	UH507W-4G
Order No.	UH507W-3WA01-0AA0	UH507W-3WF01-0AA0	UH507W-34G01-0AA0
Specifications			
Display size	7'' TFT		
colors	24bits		
Resolution	800×480		
backlight	LED		
Brightness	350cd/㎡		
Life span	30000Hrs		
Screen type	4 wire high precision,resistance net work		
CPU	A8 600MHz 32bit		
Memory	256M FLASH+128M DDR3		
Real clock	Support		

Model No.	UH507W-WAN	UH507W-WF	UH507W-4G
USB HOST	USB 2.0×1		
USB SLAVE	USB 2.0×1		
Series port	Male,COM1:RS485/RS422,COM2:RS232		
Ethernet	10/100M self-adaption		
wifi	N/A	Support	N/A
4G	N/A	N/A	Support
Antenna	N/A	Support	Support
Electrical specification			
Rated power	7.2W		
Rated Voltage	DC24V		
Input range	9~28.8V DC		
Allowable power loss	10ms		
insulation resistance	Over 50MΩ@500VDC		
Voltage resistance	500VAC 1min		
Structural specification			
Housing color	Deep gray+ silvery		
Housing material	ABS+ PC plastic , metal		
Outer size	230×166×39mm		
Hole size	192×138mm		
Weight	0.75kg		
Environmental specifications			
working temperature	0~50℃		
Working humidity	10~90%RH (non-condensing)		
Storage temperature	-20~60℃		
Storage humidity	10~90%RH (non-condensing)		
Seismic performance	10~25Hz (X、Y、Z direction 2G/20 min)		
Cooling mode	Natural Air Cooling		
Product certification			
Protection Grade	Front panel protection level IP65		
CE certification	Compliance with CE Certification		

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UniMAT

DB9 series communication port
for PLC communication RS485
and Rs232 support

Power Supply
9-28VDC

USB Host
connect U disk
update configuration
firmware and historical data export

SD Card
stock HMI data

Ethernet PC
configure the HMI IOT setting
connect the external setting
connect the network device

Ant
connect external
antenna
strength signal
reception

Sim Card
Insert slot
Connect 4C

HMI Series Order Part No.

No	Products Description	Model No.
1	7 inch HMI without Ethernet port,DC24V	UH 307-2AU01-0AA0
2	7 inch HMI with Ethernet port,DC24V	UH 307-2EU01-0AA0
3	10 inch HMI with Ethernet port,DC24V	UH 310-2EU01-0AA0
4	7 inch HMI without Ethernet port,DC24V	UH 407AS-2AU01-0AA0
5	7 inch HMI with Ethernet port,DC24V	UH 407AE-2EU01-0AA0
6	7 inch HMI without Ethernet port,DC24V	UH 507-1AU01-0AA8
7	7 inch HMI with Ethernet port,DC24V	UH 507-4EU01-0AA8
8	10 inch HMI without Ethernet port,DC24V	UH 510-1AU01-0AA8
9	10 inch HMI with Ethernet port,DC24V	UH 510-4EU01-0AA8
10	7 inch HMI without Ethernet port,DC24V	UH 407-4AU01-0AA0
11	7 inch HMI with Ethernet port,DC24V	UH 407-4EU01-0AA0
12	Remote control 7 inch HMI with Ethernet port,DC24V	UH 507W-3WA01-0AA0
13	Remote control 7 inch HMI with 4G,DC24V	UH 507W-34G01-0AA0
14	Remote control 7 inch HMI with WIFI,DC24V	UH 507W-3WF01-0AA0
15	7 inch HMI and PLC combo with Digital input only,DC24V	UA 407AS-20RDM-00
16	7 inch HMI and PLC combo with Digital input/output & Analogy input/output,DC24V	UA 407AS-20RAM-00
17	7 inch HMI and PLC combo with Digital input only,with Ethernet ,DC24V	UA 407AE-20RDM-00
18	7 inch HMI and PLC combo with Digital input/output & Analogy input/output with Ethernet ,DC24V	UA 407AE-20RAM-00
19	BD expansion board, 4AI, current type	UA-4AI-BD
20	BD expansion board, 2DI/4DO, transistor type, DC24V	UA-2DI4DOT-BD

Pin Definition for COM

Photo	Series port	PIN	Pin definition	wiring	
male	COM2	1		RS232	
		2	RXD		
male	COM2	3	TXD		
		4	-		
		5	GND		
1 2 3 4 5 / 6 7 8 9	COM1	6	TX+	RS422	RS422
		7	RX+(RS485 +)	RS485	
		8	RX-(RS485 -)		
		9	TX-	RS422	