



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 |



UH 400 SERIES HMI

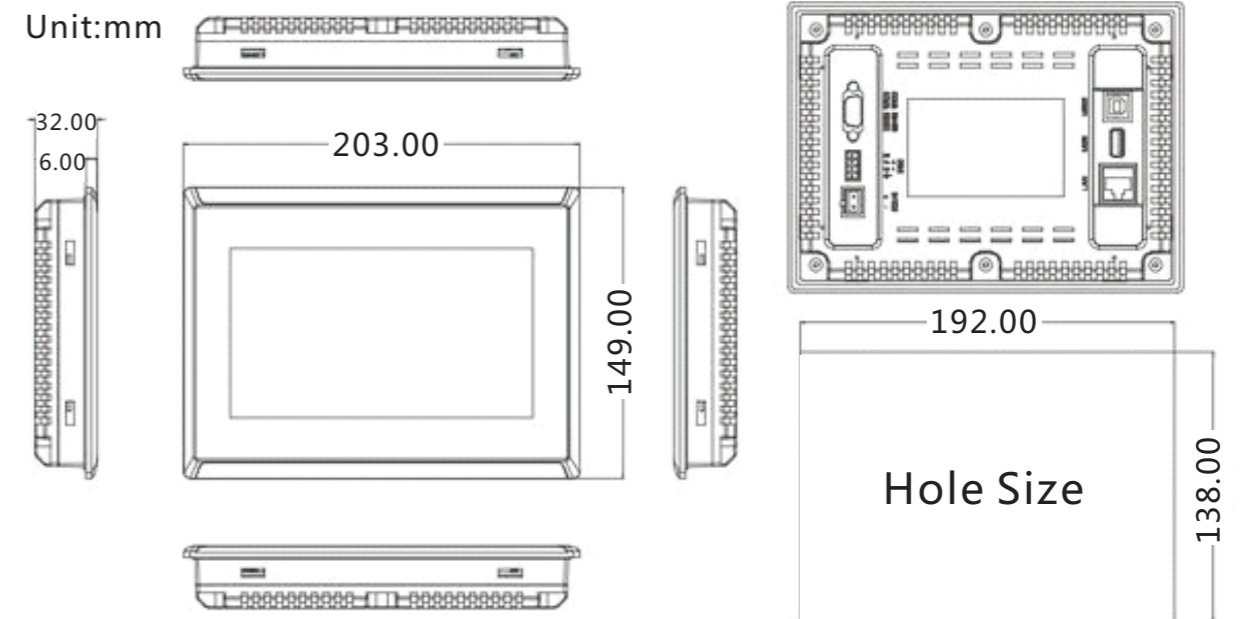
[typical products] UH 407S & UH 407E Series

- 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 | 800x480 | 800x480 |
| 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 | 203x149x32mm | 203x149x32mm |

| Item NO | UH407E | 407S |
|-----------|-----------|-----------|
| Hole size | 192x138mm | 192x138mm |
| IP grade | IP65 | IP65 |



UH307E/UH307S

Communication port definition I

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



UH500 SERIES HMI

[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.



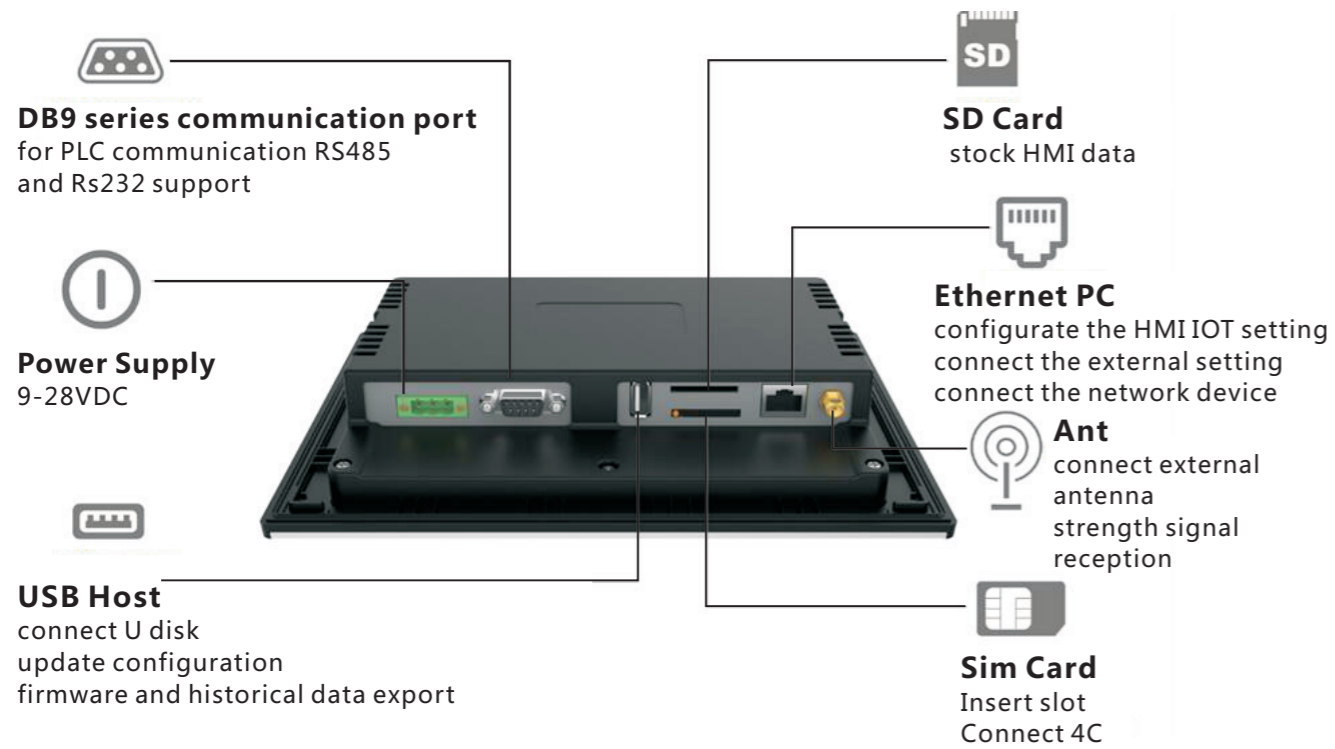
IOT HMI Specifications

| 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/m ² | | |
| 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 | | |



UH SERIES HMI



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 | |
| | COM1 | 6 | TX+ | RS422 |
| | | 7 | RX+(RS485 +) | RS485 |
| | | 8 | RX-(RS485 -) | RS422 |
| | | 9 | TX- | RS422 |