W24ITWS-MHA2

23.8" Intel® Core™ i5-1135G7 M Series HMI Panel PC



KEY FEATURES

- Intel® 11th Generation Tiger Lake UP3 Core™ i5 CPU
- Signature true flat display screen with edge-to-edge design
- Aluminum, anti-corrosion treated housing
- Superior sealing with front IP65 protection against dust and water
- Projected Capacitive Multi-Touch Screen (PCAP)
- Fanless Design
- Support wide range 9-29 V DC input with isolation
- One Quick & Easy Removable 2.5" SSD Bay Slot



SPECIFICATIONS

Resolution 1920x1080 Size 23.8 inches Contrast Ratio 3000:1 Panel Brightness 250.0 nits Active Area 527.04x296.46 mm Frouch / Glass Projected Capacitive Multi Touch Screen System Specification MLAN Support (Optional) Expansion Port Modular Design for easy service in the field Processor Intel Core i5-1135G7 2.4GHz (up to 4.2GHz) Memory 2 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional) Ethernet controller Intel® Ethernet Controller [211-AT + Intel® Ethernet Connection Iz19-LM Dimension 603.6 x 373 x 91.4 mm Weight 12.5kg Mounting Panel mount VESA Mount VESA Mount Cooling System Fanless design Cut out 583 x 353mm Environment Diperating Humidity 10% to 90% RH, Non-Condensing Operating Temperature IP rating Front IP65 Etheroperature Certification CE, FCC IO Ports Power Input 1 x 9-28V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Video 1 x DDP1.4 1 x HDMI 2.0 (Optional)	Display				
Contrast Ratio 3000.1 Panel Brightness 250.0 nits View Angles 89,89,89,89 Projected Capacitive Multi Touch Screen	Resolution	1920x1080	Size	23.8 inches	
Support (Optional) BT Support (Optional)	Contrast Ratio	3000:1	Panel Brightness	250.0 nits	
System Specification MLAN Support (Optional) Expansion Port Modular Design for easy service in the field Processor Intel Core i5-1135G7 2.4GHz (up to 4.2GHz) Memory 2 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional) 16GB (Optional) 2x S.5 removable 256GB SSD up to 512GB 2 x 2.5 removable 256GB SSD up to 512GB (Optional) 32GB (Optional)	View Angles	89,89,89,89	Active Area	527.04x296.46 mm	
MIAN Support (Optional) Expansion Port Modular Design for easy service in the field Processor Intel Core i5-1135G7 2.4GHz (up to 4.2GHz) Memory 2 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional) 16GB (Optional) 16GB (Optional) 32GB (Optiona	Touch / Glass	Projected Capacitive Multi Touch Screen			
Expansion Port Modular Design for easy service in the field Processor Intel Core i5-1135G7 2.4GHz (up to 4.2GHz) Memory 2 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional) 16GB (Optional) 32GB (System Specification				
Storage 1 x M.2 2280 NVMe SSD, 128GB up to 512GB 2 x 2.5" Removable 256GB SSD up to 512GB 2 x 2.5" Removable 256GB 2 x 2.5" Remov	WLAN	Support (Optional)	ВТ	Support (Optional)	
8GB (Optional) 16GB (Optional) 32GB (Optional)	Expansion Port	Modular Design for easy service in the field	Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)	
Intel® Ethernet Connection 219-LM	Memory	8GB (Optional) 16GB (Optional)	Storage	2 x 2.5" Removable 256GB SSD up to 512GB	
Mechanical Dimension 603.6 x 373 x 91.4 mm Weight 12.5kg Mounting Panel mount VESA Mount Enclosure Metal Housing Cooling System Fanless design Cut out 583 x 353mm Environment Derating Humidity 10% to 90% RH, Non-Condensing Operating Temperature 0°C to 50°C Storage Temperature -10°C to 60°C IP rating Front IP65 Certification CE, FCC IO Ports Power Input 1 x 9~29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Ethernet controller		Security	Trusted Platform Module (TPM) 2.0	
Dimension 603.6 x 373 x 91.4 mm Weight 12.5kg Mounting Panel mount VESA Mount Enclosure Metal Housing Cooling System Fanless design Cut out 583 x 353mm Environment Operating Humidity 10% to 90% RH, Non-Condensing Operating Temperature Storage Femperature -10°C to 60°C IP rating Front IP65 Certification Certification CE, FCC IO Ports Power Input 1 x 9~29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Operating System	Windows 10 IoT Enterprise (64 bit) (Optional)			
Mounting Panel mount VESA Mount Cooling System Fanless design Cut out 583 x 353mm Environment Operating Humidity 10% to 90% RH, Non-Condensing Operating Temperature Premperature Coeffication Certification CE, FCC IO Ports Power Input 1 x 9-29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Mechanical				
VESA Mount Cooling System Fanless design Cut out 583 x 353mm Environment Operating Humidity 10% to 90% RH, Non-Condensing Operating Temperature Storage Temperature Certification Certification CE, FCC IO Ports Power Input 1 x 9~29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Dimension	603.6 x 373 x 91.4 mm	Weight	12.5kg	
Environment Operating Humidity 10% to 90% RH, Non-Condensing Operating Temperature Storage -10°C to 60°C IP rating Front IP65 Certification Certification CE, FCC IO Ports Power Input 1 x 9~29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Mounting		Enclosure	Metal Housing	
Operating Humidity 10% to 90% RH, Non-Condensing Operating Temperature Storage Temperature -10°C to 60°C IP rating Front IP65 Certification Certification CE, FCC IO Ports Power Input 1 x 9~29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Cooling System	Fanless design	Cut out	583 x 353mm	
Temperature Storage Temperature -10°C to 60°C IP rating Front IP65 Certification CE, FCC IO Ports Power Input 1 x 9~29V DC, 3-Pin Terminal Block Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Environment				
Temperature Certification CE, FCC IO Ports IO Ports Power Input 1 x 9~29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Operating Humidity	10% to 90% RH, Non-Condensing		0°C to 50°C	
Certification CE, FCC IO Ports IO Ports Power Input 1 x 9~29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Storage Temperature	-10°C to 60°C	IP rating	Front IP65	
Power Input	Certification				
Power Input 1 x 9~29V DC, 3-Pin Terminal Block USB Port 4 x USB 3.2 Gen.1 (Type-A) Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	Certification	CE, FCC			
Serial Port 2 x RS232/422/485 (Default RS232) Video 1 x DP1.4 1 x HDMI 2.0 (Optional)	IO Ports				
1 x HDMI 2.0 (Optional)	Power Input	1 x 9~29V DC, 3-Pin Terminal Block	USB Port	4 x USB 3.2 Gen.1 (Type-A)	
Audio 1 x Audio Combo Connector (Mic in / Line Out) Expansion Port 1 x mPCle slot	Serial Port	2 x RS232/422/485 (Default RS232)	Video		
	Audio	1 x Audio Combo Connector (Mic in / Line Out)	Expansion Port	1 x mPCle slot	

1 x PCle x16 slot (x4 signal)(module max size:180x121mm)
1 x M.2 2230 Key E slot for WiFi
1 x M.2 2280 Key M slot for NVMe SSD Swappable 2.5" HDD/SSD Bay Slot

LAN
2 x Giga LAN RJ45 Connector
Indicator
1 x LED Indicator for storage

Control

Button 1 x Power Button with LED Indicator

1 x Reset Button

Accessory

Accessory 100~240V AC to DC Adapter

Power Cord

Open Wire Cable with terminal block connector

Mounting clips VESA screws

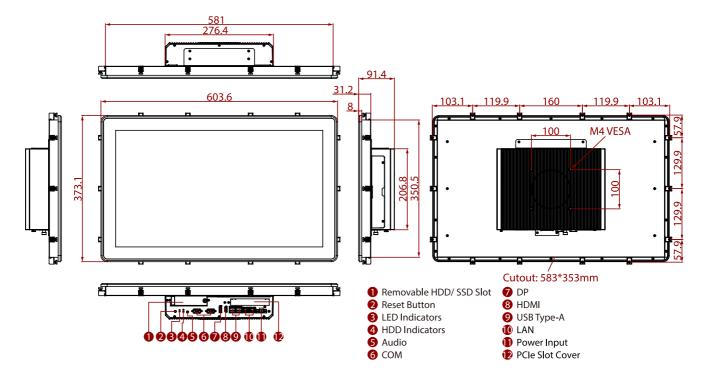
Power

Power Rating 9V~29V DC with protection fuse Adapter 12V 120W

Consumption 45W~55W

DIMENSIONS

UNIT:MM



NOTE

- 1. This is a simplified drawing and some components are not marked in detail.
- 2. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
- 3. All specifications are subject to change without prior notice.