# 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   1920x1080   1920x1080   23.8 inches   23.8 inches   23.8 inches   250 nits   250 ni					
Contrast Ratio   3000:1	Display				
New Angles   89,89,89,89   Active Area   527.04x296.46 mm	Resolution	1920x1080	Size	23.8 inches	
Support (Optional)   Support (Optional)   BT   Support (Optional)	Contrast Ratio	3000:1	Panel Brightness	250 nits	
System Specification  WIAN 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 (Opt	View Angles	89,89,89,89	Active Area	527.04x296.46 mm	
MVAN 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) 32GB (Optiona	Touch / Glass	Projected Capacitive Multi Touch Screen			
Expansion Port Modular Design for easy service in the field Processor Intel Core 15-113SG7 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 SSD up to 512GB 2 x 2.5" Removable 256GB SSD up to 512GB (Optional) 32GB (Optional) 32GB (Optional)	WLAN	Support (Optional)	ВТ	Support (Optional)	
8GB (Optional) 16GB (Optional) 32GB (Optional)	<b>Expansion Port</b>	Modular Design for easy service in the field	Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)	
Intel® Ethernet Connection I219-LM  Operating System Windows 10 IoT Enterprise (64 bit) (Optional)  Mechanical  Dimension 603.6 x 373 x 91.4 mm 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 Properature  Storage 1-10°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)	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         Mounting         Panel mount VESA Mount           Enclosure         Metal Housing         Cooling System         Fanless design           Cut out         583 x 353mm         Fanless design           Environment         Operating Humidity         10% to 90% RH, Non-Condensing         Operating Temperature           Storage Temperature         -10°C to 60°C         IP rating         Front IP65           Certification         CE, FCC           IO Ports         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 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 IP rating Front IP65  Storage Temperature CE, FCC  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)			
VESA Mount	Mechanical				
Cut out   583 x 353mm	Dimension	603.6 x 373 x 91.4 mm	Mounting		
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)	Enclosure	Metal Housing	<b>Cooling System</b>	Fanless design	
Operating Humidity 10% to 90% RH, Non-Condensing Operating Temperature  Storage	Cut out	583 x 353mm			
Temperature  Storage	Environment				
Temperature           Certification         CE, FCC           IO Ports         USB Port         4 x USB 3.2 Gen.1 (Type-A)           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)	<b>Expansion Port</b>	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

Indicator

1 x LED Indicator for storage

Control

LAN

**Button** 1 x Power Button with LED Indicator

1 x Reset Button

2 x Giga LAN RJ45 Connector

**Accessory** 

Accessory 100~240V AC to DC Adapter

Power Cord

Open Wire Cable with terminal block connector

Mounting clips VESA screws

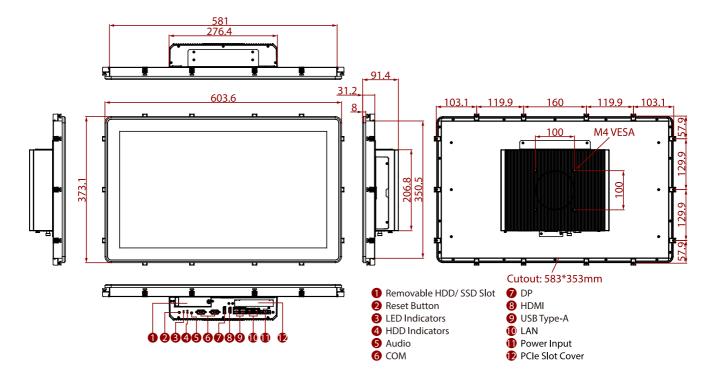
Power

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.