R19ITWS-MHA3-EX
19" Intel® Core™ i5-1135G7 M Series HMI Panel PC

KEY FEATURES

- Intel® 11th Generation Tiger Lake UP3 Core™ i5 CPU HMI Panel PC
- 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
- Quick & Easy Removable 2.5" SSD Bay Slot
- Support PCIe x4 Card
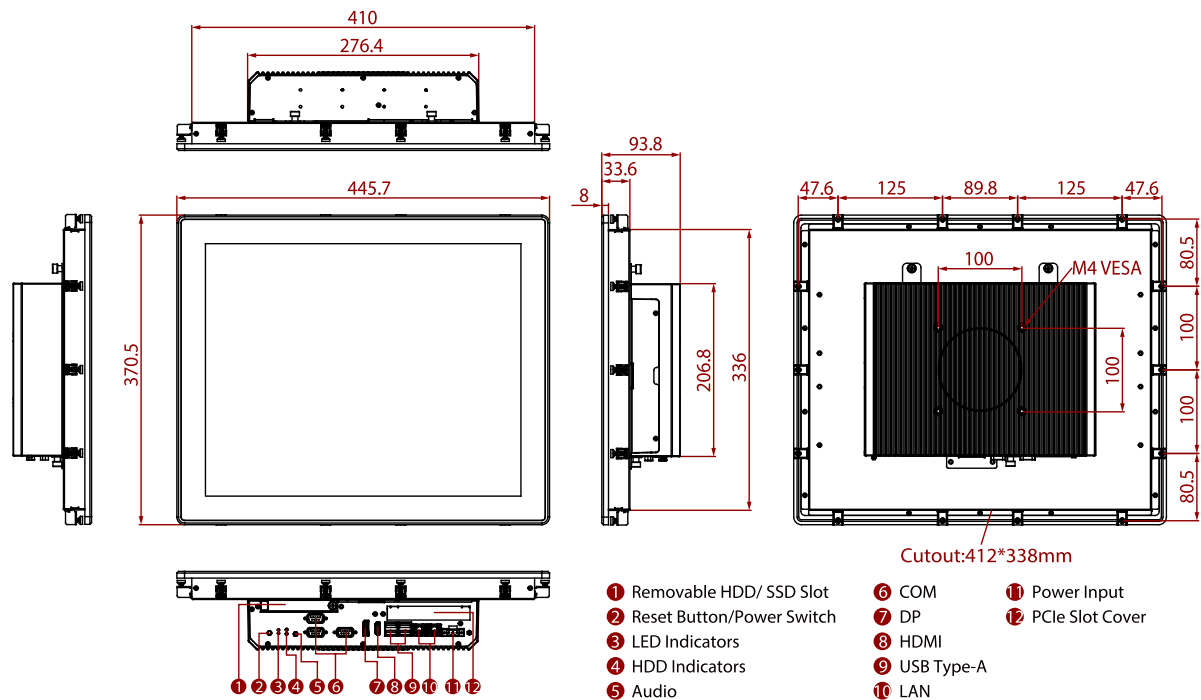- Class 1, Division 2, ATEX Grade zone 2 and IECEx certified for hazardous area applications

SPECIFICATIONS

Display

Touch / Glass	Projected Capacitive Multi Touch Screen	Resolution	1280x1024
Size	19 inches	Contrast Ratio	1000:1
Panel Brightness	350 nits	View Angles	85,85,80,80
Active Area	376.32x301.06 mm		

System Specification

WLAN	Support (Optional)	BT	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 (Optional)	Storage	1 x M.2 2280 NVMe SSD, 128GB up to 512GB 1 x 2.5" Removable 256GB SSD up to 512GB (Optional)
Ethernet controller	Intel® Ethernet Controller I211-AT + Intel® Ethernet Connection I219-LM	Security	Trusted Platform Module (TPM) 2.0
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional)		

Mechanical

Dimension	445.7 x 370.5 x 93.8 mm	Mounting	Panel mount VESA Mount
Enclosure	Metal Housing	Cooling System	Fanless design
Cut out	412 x 338mm		

Environment

Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 60°C		

Certification

Certification	CE, FCC Class 1, Division 2, Group A, B, C, D, T5 IECEx Ex ec ic IIC T4 Gc Compliance with ATEX grade zone 2

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) 1 x RS232	**Video**	1 x DP1.4 1 x HDMI 2.0 (Optional)
Audio	1 x Audio Combo Connector (Mic in / Line Out)	**Expansion Port**	1 x mPCIe slot 1 x PCIe 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	50W~60W		

DIMENSIONS   UNIT:MM

1	Removable HDD/ SSD Slot	6	COM	11	Power Input
2	Reset Button/Power Switch	7	DP	12	PCIe Slot Cover
3	LED Indicators	8	HDMI		
4	HDD Indicators	9	USB Type-A		
5	Audio	10	LAN		

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.

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