R12ITWS-MHM2-EX

12.1" Intel® Core™ i5-1135G7 C1D2 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, C1D2 HMI Panel PC
- Support wide range 9-29 V DC input
- Quick & Easy Removable 2.5" SSD Bay Slot
- Support PCIe x4 Card
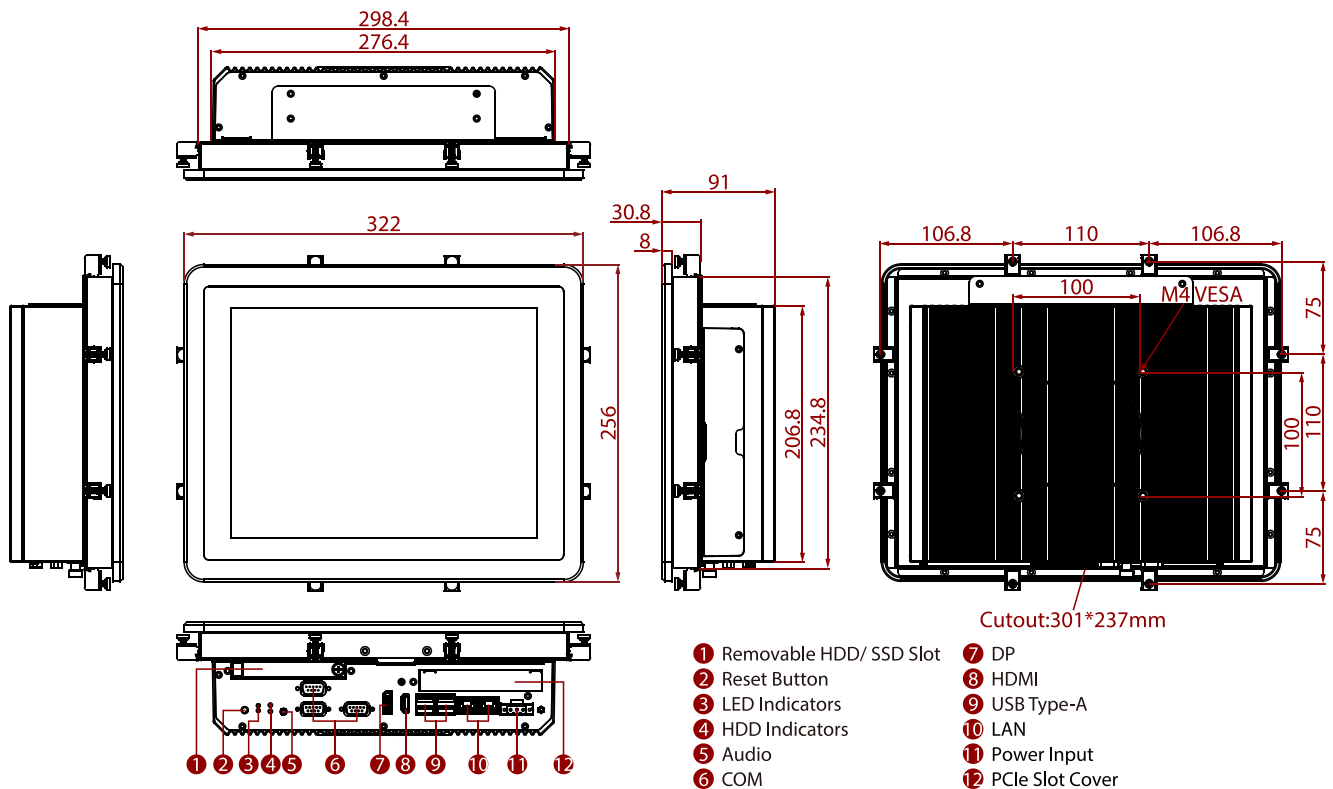- C1D2 & IECEx certificated, Compliance with ATEX grade zone 2

SPECIFICATIONS

Display

Resolution	1024x768	**Size**	12.1 inches
Contrast Ratio	1000:1	**Panel Brightness**	500.0 nits
View Angles	89,89,89,89	**Active Area**	245.76x184.32 mm
Touch / Glass	Projected Capacitive Multi Touch Screen		

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	322 x 256 x 91 mm	**Weight**	5.4kg
Mounting	Panel mount VESA Mount	**Enclosure**	Metal Housing
Cooling System	Fanless design	**Cut out**	301 x 237mm

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 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	45W~55W		

DIMENSIONS UNIT:MM

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

Cutout:301*237mm

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.