# R17ITWS-MHA1-EX

## 17" Intel® Core™ i5-1135G7 HMI Panel PC

CE

CSA c us

FC

TD0700KL

## 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
- C1D2 & IECEx certificated, Compliance with ATEX grade zone 2

## INTRODUCTION

Winmate ATEX M Series HMI is designed for hazardous environments, certified for C1D2, IECEx, and ATEX Zone 2 compliance. Available in sizes from 12.1" to 24", it features Intel® processors, multi-OS support, and a sleek true-flat PCAP touch display. With fanless operation, anti-corrosion aluminum housing, and front IP65 protection, it offers durability and reliability. Its wide 9-29V DC input, removable SSD bay, and PCIe x4 support make it ideal for industrial automation in oil, gas, and chemical industries.

## SPECIFICATIONS

### Display

| | | | |
|---|---|---|---|
| Resolution | 1280x1024 | Size | 17.0 inches |
| Contrast Ratio | 1000:1 | Panel Brightness | 350.0 nits |
| View Angles | 85,85,80,80 | Active Area | 337.920x270.336 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<br>8GB (Optional)<br>16GB (Optional)<br>32GB (Optional) | Storage | 1 x M.2 2280 NVMe SSD, 128GB up to 512GB<br>1 x 2.5" Removable 256GB SSD up to 512GB (Optional) |
| Ethernet controller | Intel® Ethernet Controller I211-AT +<br>Intel® Ethernet Connection I219-LM | Security | Trusted Platform Module (TPM) 2.0 |
| Operating System | Windows 11 IoT Enterprise (64 bit) (Optional)<br>Windows 11 Pro 64 bit (Optional)<br>Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional) | | |

## Mechanical

| | | | |
|---|---|---|---|
| Dimension | 393 x 325 x 94.4 mm | Weight | 7.0 kg |
| Mounting | Panel mount<br>VESA Mount | Enclosure | Metal Housing |
| Cooling System | Fanless design | Cut out | 373 x 305 mm |

## 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<br>Class 1, Division 2, Group A, B, C, D, T5<br>IECEx Ex ec IIC T4 Gc<br>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)<br>1 x RS232 | Video | 1 x DP1.4<br>1 x HDMI 2.0 (Optional) |
| Audio | 1 x Audio Combo Connector (Mic in / Line Out) | Expansion Port | 1 x mPCIe slot<br>1 x PCIe x16 slot (x4 signal)(module max size:180x121mm)<br>1 x M.2 2230 Key E slot for WiFi<br>1 x M.2 2280 Key M slot for NVMe SSD<br>Swappable 2.5" HDD/SSD Bay Slot |
| LAN | 2 x Giga LAN RJ45 Connector | Indicator | 1 x LED Indicator for storage |

## Control

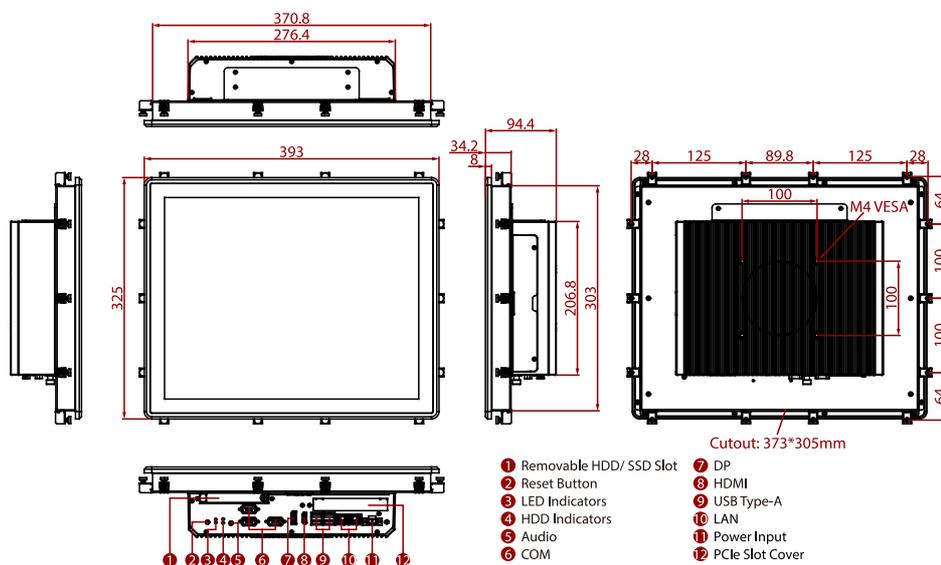| | |
|---|---|
| Button | 1 x Power Button with LED Indicator<br>1 x Reset Button |

## Accessory

| | |
|---|---|
| Accessory | 100~240V AC to DC Adapter<br>Power Cord<br>Open Wire Cable with terminal block connector<br>Mounting clips<br>VESA screws |

## Power

| | | | |
|---|---|---|---|
| Power Rating | 9V~29V DC with protection fuse | Adapter | 12V 120W |
| Consumption | 55W~65W | | |

## 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.

370.8
276.4
393
325
34.2
8
94.4
206.8
303
28  125  89.8  125  28
100
M4 VESA
100
100
100
64
64
Cutout: 373*305mm

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