



R12ITWS-MHM2-EX 12.1" Intel(R) Core(TM) i5-1135G7 C1D2 HMI Panel PC

Manufacturer part number: R12ITWS-MHM2-EX | ATEX Grade Panel PC



Explore Winmate R12ITWS-MHM2-EX, a hazardous-area rugged computer featuring Intel(R) Core(TM) i5-1135G7, 12.1-inch form factor, IP65...

Display	
Size	12.1 inches
Touch / Glass	Projected Capacitive Multi Touch Screen
Resolution	1024x768
Panel Brightness	500.0 nits
Contrast Ratio	1000:1
View Angles	89,89,89,89
Active Area	245.76x184.32 mm
System Specification	
Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)
Memory	2x, 4GB (Default), 8GB (Optional), 16GB (Optional), 32GB (Optional)
Storage	1 x M.2 2280 NVMe SSD, 128GB up to 512GB (Default), 1 x 2.5" Removable 256GB SSD up to 512GB (Optional)
Ethernet controller	Intel(R) Ethernet Controller I211-AT +, Intel(R) Ethernet Connection I219-LM
Security	Trusted Platform Module (TPM) 2.0
Operating System	Windows 11 IoT Enterprise (64 bit) (Optional), Windows 11 Pro 64 bit (Optional), Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)
WLAN	Support (Optional)
BT	Support (Optional)
Expansion Port	Modular Design for easy service in the field
Mechanical	
Dimension	322 x 256 x 91 mm
Cut out	301 x 237 mm
Weight	5.4kg
Mounting	Panel mount (Default), VESA mount (Optional)
Enclosure	Metal Housing
Cooling System	Fanless Design
Environment	
Operating Humidity	10% to 90% RH, Non-Condensing

Operating Temperature	-20 deg C to 60 deg C
Storage Temperature	-20 deg C to 60 deg C
Certification	
Certification	CE, FCC, KC, Class 1, Division 2, Group A, B, C, D, T5, IECEx Ex ec IIC T4 Gc, Compliance with ATEX grade zone 2
IO Ports	
USB Port	4 x USB 3.2 Gen.1 (Type-A)
Serial Port	2 x RS232/422/485 (Default RS232), 1 x RS232
LAN	2 x Giga LAN RJ45 Connector
Video	1 x DP1.4 (Default), 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
Indicator	1 x LED Indicator for storage
Power Input	1 x 9~29V DC, 3-Pin Terminal Block
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