ITMH100-EX

Intel® Core™ i5-1135G7 CID2 M Series Box PC

CE

CSA
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KEY FEATURES

- Intel® Tiger Lake UP3 Core™ i5-1135G7
- Multi Video Output , HDMI/Display Port, Intel® Core™ i5 C1D2 Box PC
- Auto detection of the connected display, No settings necessary
- Quick & Easy Replaceable Hard Disk Design, No Tools required
- Support wide range 9-29V DC input
- Optional with Modular front Display as a Panel PC
- Expansion slot for PCIex4
- Class 1, Division 2, ATEX Grade zone 2 and IECEx certified for hazardous area applications

INTRODUCTION

Winmate ATEX M Series Box PC is designed for hazardous environments, featuring Intel® Core™ processing power and multi-video output support for HDMI and DisplayPort. Certified for Class 1, Division 2, ATEX Zone 2, and IECEx standards, it ensures safe operation in challenging conditions. With a fanless, rugged design, tool-free hard disk replacement, 9-29V wide-range DC input, and PCIe expansion slot, it is ideal for industrial automation, process visualization, and mobile applications requiring reliable and efficient computing.

SPECIFICATIONS

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 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)		

Mechanical

Dimension	276 x 207 x 60 mm	Weight	3.0 kg
Mounting	VESA Mount	Enclosure	Metal Housing
Cooling System	Fanless design		

Environment

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

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Certification

Certification	CE, FCC Class 1, Division 2, Group A, B, C, D, T5 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

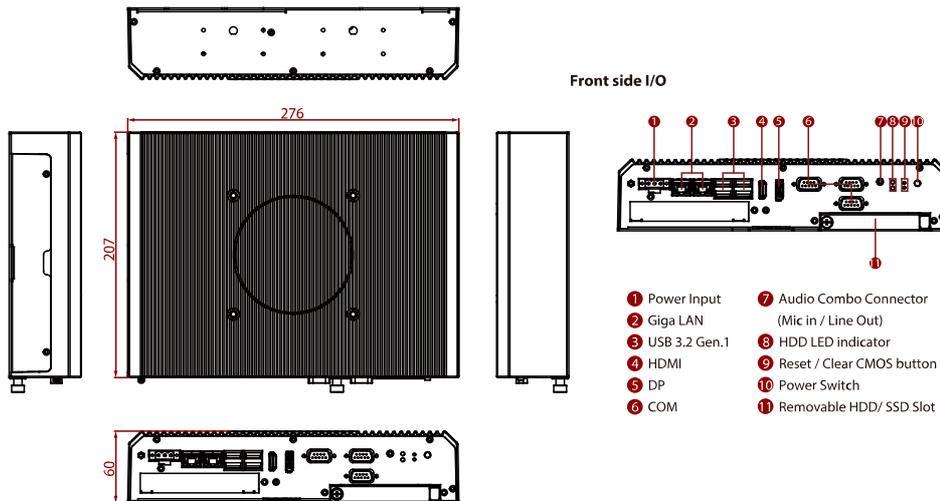| Button	1 x Power Button with LED Indicator 1 x Reset Button

Accessory

Accessory	100~240V AC to DC Adapter Power Cord Open Wire Cable with terminal block connector VESA screws

Power

Power Rating	9V~29V DC with protection fuse	Adapter	12V 84W
Consumption	45W~55W		

DIMENSIONS   UNIT:MM

Front side I/O

❶ Power Input
❷ Giga LAN
❸ USB 3.2 Gen.1
❹ HDMI
❺ DP
❻ COM
❼ Audio Combo Connector (Mic in / Line Out)
❽ HDD LED indicator
❾ Reset / Clear CMOS button
❿ Power Switch
⓫ Removable HDD/ SSD Slot

NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. 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.

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