

ITMH100-EX

Intel® Core™ i5-1135G7 C1D2 M Series Box PC



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 PCIe x4
- Class 1, Division 2, ATEX Grade zone 2 and IECEx certified for hazardous area applications

INTRODUCTION

Winmate ITMH100-EX is an Intel® Core™ i5-1135G7 CID2 M Series Box PC engineered for oil and gas, chemical processing, and hazardous-area operations. It combines Intel® Core™ i5-1135G7, ATEX, and IECEx to support reliable operation in harsh industrial environments. With Intel® Tiger Lake UP3 Core™ i5-1135G7, the ITMH100-EX helps OEMs, system integrators, and project teams deploy durable, configurable solutions for demanding field, factory, and mission-critical applications.

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	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® 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
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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
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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 (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
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
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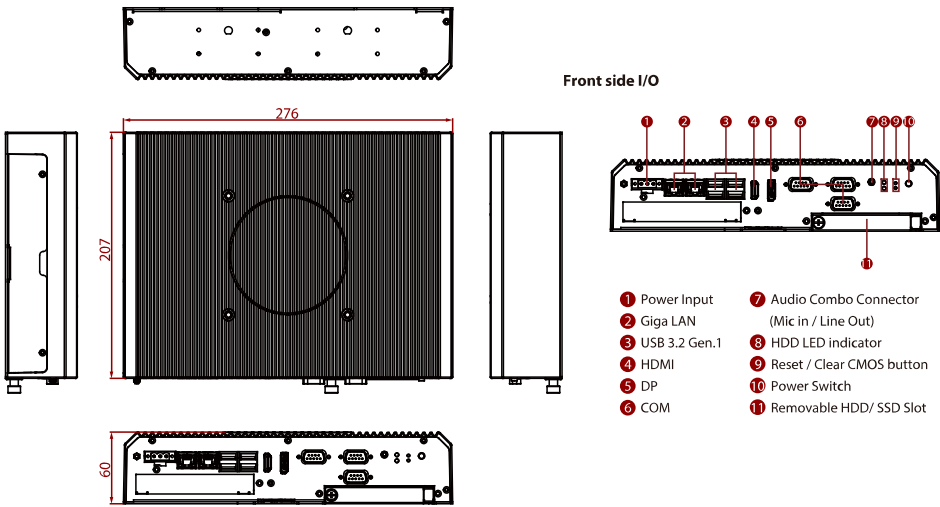
Accessory

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

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

DIMENSIONS UNIT:MM



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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