

R19IHAT-66EX-T

19" ATEX Panel PC with Intel® Core™ i5-1135G7



KEY FEATURES

- 19" 1000 nits LCD ATEX Panel PC
- Class 1, Division 2 & ATEX Zone 2 certified for hazardous area applications
- Intel® 11th Tiger Lake Core™ i5-1135G7 Processor
- Fanless design with streamlined enclosure for highly efficient heat dissipation
- Intelligent Heater for working in extreme cold environments -40°C

INTRODUCTION

Winmate ATEX Panel PC Series is designed for safe and reliable performance in hazardous environments, certified for Class 1, Division 2, ATEX Zone 2, and IECEx Zone 2 applications. Powered by Intel® processors, these fanless Panel PCs feature durable, streamlined enclosures for efficient heat dissipation and wide operating temperatures, with optional intelligent heaters for extreme cold down to -40°C. Ideal for industrial and chemical settings, they include high-brightness displays, multi-touch capabilities, IP65-rated protection, and flexible mounting options, ensuring superior usability and safety in challenging conditions.

OVERVIEW



Fully Rugged and Waterproof Design

The R19IHAT-66EX-T ATEX panel PC offers all-around IP66 protection against dust and water, in compliance with the MIL-STD-810G standard. Suitable for applications in potentially explosive and harsh environments. With the EX-type brass cable glands M16/ M12 ports for maximum protection in wet and dusty operation conditions.

Safe for Use in Hazardous Locations

The R19IHAT-66EX-T complies with ATEX Zone 2 certification for remote data collection, process visualization, and control. Suitable for deployment in hazardous zones, such as explosion-prone areas, where explosion-proof safety requirements are the priority.



HIGH PROCESSING POWER AND FANLESS THERMAL SYSTEM



High Processing Power and Fanless Thermal System

Intel® CPU powers Winmate Explosion-proof Panel PC, and a fanless thermal design with a smooth enclosure offers highly efficient heat dissipation and high-performance computing for most demanding tasks.

Suitable for Operations in Extreme Working Conditions

R19IHAT-66EX-T Explosion-proof panel PC comes with the built-in intelligent heater and optional high brightness, operable at -40°C to 70°C and suitable for outdoor use in rain, sunny, windy, or cold applications.



ULTIMATE TOUCH EXPERIENCE



Ultimate Touch Experience

Enhance customer experience and convenience with a PCAP touch that supports a multi-touch screen. Experience the ultimate durability in some of the most demanding applications, such as a control panel of a drilling rig.

SPECIFICATIONS

System Specification

Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz) Intel Core i7-1165G7 2.8GHz (up to 4.70 GHz) (Optional) Intel Core i3-1115G4E 3.0GHz (up to 3.90 GHz) (Optional) Intel Core i5-1145G7E 2.6GHz (up to 4.10 GHz) (Optional) Intel Core i7-1185G7E 2.8GHz (up to 4.40 GHz) (Optional)	Memory	1 x SO-DIMM, DDR4 3200 MHz, 8GB 16GB (Optional) 32GB (Optional) 2 x SO-DIMM, DDR4 3200 MHz, 8GB (Optional) 16GB (Optional) 32GB (Optional) 64GB (Optional)
Storage	1 x M.2 2280 M-Key NVMe SSD 256GB 512GB (Optional) 1TB (Optional) 2TB (Optional) 1 x SATA III for 2.5" SSD/HDD up to 2TB (Optional)	Ethernet controller	2 x Intel® Ethernet Controller
Security	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)

Display

Touch / Glass	Projected Capacitive Multi Touch Screen Bonding With Panel	Resolution	1280x1024
Size	19.0 inches	Contrast Ratio	1000:1
Panel Brightness	1000.0 nits	View Angles	85,85,80,80
Active Area	376.32x301.06 mm		

Mechanical

Dimension	474 x 410 x 111 mm	Weight	9.8 kg
Mounting	Panel mount VESA mount (Optional)	Enclosure	Aluminum Housing
Cooling System	Fanless Design	Cut out	462 x 386 mm

Environment

Operating Humidity	5% to 95% RH, Non-Condensing	Operating Temperature	-40°C to 70°C (with intelligent heater)
Storage Temperature	-40°C to 70°C	Shock	MIL-STD-810G Method 516.6 Procedure I
Vibration	MIL-STD-810G Method 514.6 Procedure I	IP rating	IP66 Meet Standard IEC60529 (for Non-Hazardous location) IP54 Meet Standard IEC60079 (for Hazardous location)

Certification

Certification	CE, FCC ANSI/UL 62368-1-2019 CAN/CSA-C22.2 No.62368-1-19 EN 62368-1 Class I, Div.2, Groups A,B,C,D T4 -40 ≤ Tamb ≤ 70 Meet Standards ANSI/UL 121201-2021 CAN/CSA C22.2 No. 213-17 ATEX II 3G Ex ic IIC T4 Gc -40 ≤ Tamb ≤ 70 Meet Standards EN 60079-0, EN 60079-7, EN 60079-11
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IECEX Ex ec ic IIC T4 Gc
 -40 ≤ Tamb ≤ 70
 Meet Standards
 IEC 60079-0, IEC 60079-7, IEC 60079-11

IO Ports

Power Input	1 x 9~36V DC, 3-Pin Terminal Block	USB Port	1 x USB2.0, 4-Pin Terminal Block 1 x USB 3.2 Gen1x1 (Type A, only used in safe area) 2 x USB2.0 (Type A, only used in safe area)
Serial Port	1 x RS232/422/485, 10-Pin Terminal Block 1 x DB9 RS232(only used in safe area)	Video	1 x DB15 VGA(only used in safe area)
Expansion Port	1 x M.2 2280 M-Key Slot (for NVME SSD) (SATAIII is only available when M.2 NVMe is not in use) 1 x M.2 2230 E-KeySlot (for Wi-Fi Module)	LAN	1 x LAN, , 8-Pin Terminal Block 1 x RJ45(only used in safe area)
Indicator	1 x LED Indicator for power 1 x LED Indicator for storage 1 x LED Indicator for heater 1 x LED Indicator for LAN 1 x LED Indicator for lock touch	Gland	2 x EX-Type Brass Cable Gland M16 (Cable range 7.5~10.2mm) 3 x EX-Type Brass Cable Gland M12 (Cable range 5.4~8mm)

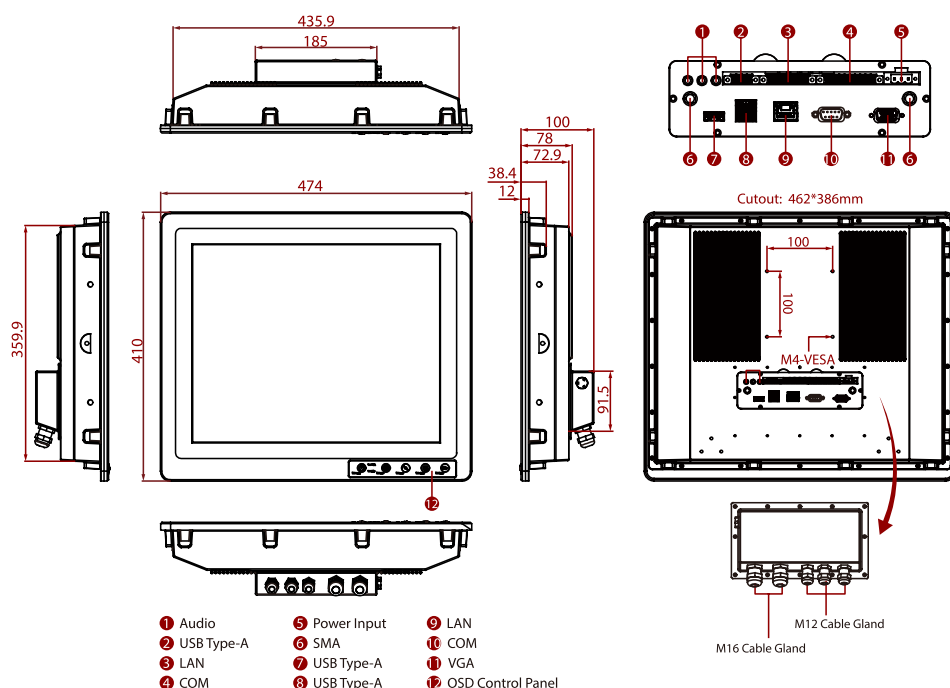
Control

Button	1 x Power Button 1 x Brightness up Button 1 x Brightness down Button 1 x Button for locking touch function 1 x Programmable function key
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Accessory

Accessory	24V 150W AC to DC Adapter Power cord Open wired power cable for M12 cable Gland Open wired USB cable for M12 cable Gland Open wired LAN/COM cable for M16 cable Gland VESA Mounting Screws Mounting Clips & Screws 3 Pins Terminal Block For Power 8 Pins Terminal Block For LAN 4 Pins Terminal Block For USB 10 Pins Terminal Block For COM
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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.