

HazLoc Panel PC

(Intel® Haswell Platform)

Flat Touch Panel Mount Panel PC

MODEL #: R19IHAT-66EX

Mechanical Design

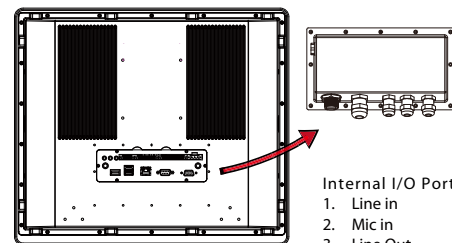


Features

- Class1, Division2 & ATEX Zone 2 Standalone device certified for hazardous area applications ([Available now](#))
- High performance / low power Intel Haswell Core i7-4650U Processor
- 19-inch 600 nits LCD panel (Optional high brightness sunlight readable 1000nits panel)
- Fanless, streamlined enclosure for highly efficient heat dissipation
- Touch screen control button to enable/disable touch screen interface
- Optical Bonding
- Optional WiFi/Bluetooth module built-in (Antenna supply by customer)

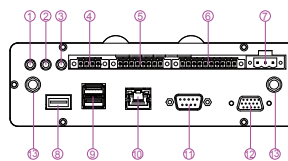


Remove the I/O Cover to reach internal I/O Ports

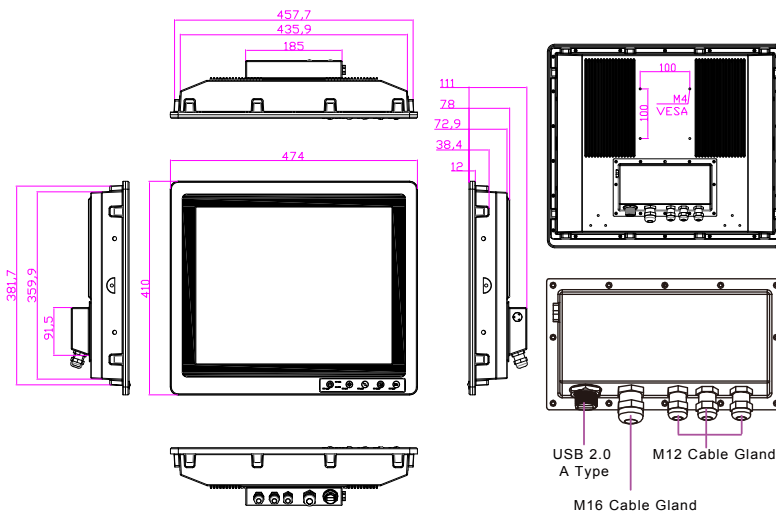


Internal I/O Ports:

1. Line in
2. Mic in
3. Line Out
4. USB2.0 Terminal block
5. LAN terminal block
6. RS232/422/485 Terminal block
7. 9~36V DCin Terminal block
8. USB2.0
9. USB2.0/3.0
10. RJ45 LAN
11. RS232/422/485(DB9)
12. VGA(DB15)
13. SMA for Antenna



* Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.



System Specifications

TFT LCD Characteristics

- Resolutions : 1280 x 1024
- Brightness : 600 nits (typ.), Optional 1000 nits
- Contrast Ratio : 1000 : 1 (typ.)
- Viewing Angles : -85~85(H); -80~80(V)
- Max Colors : 16.7M
- Touch Screen : Projected Capacitive

System Specifications

- Processor : Intel®Core i7-4650U max. 3.3GHz
- BIOS : AMI BIOS
- System Chipset : Intel®HD graphics 5000
- Memory Slot : 1 x DDR3L SO-DIMM 1600 MHz, 4GB default
- Storage : mSATA SSD 128GB
- Optional 2ndStorage: 2.5" SSD
- Wireless (Optional) : 802.11ac + BT4.0

*Note: Customer needs to purchase ATEX-approved antennas

Operating System (Optional)

- Windows Embedded Standard 7
- Windows 7 PRO for Embedded System
- Windows Embedded 8 Standard
- Windows Embedded 8.1 Industry Pro
- Windows 10 IoT Enterprise

Mechanical Specification

- Cooling System : Fanless design
- Dimension(W x H x D) : 474mm x 410mm x 111mm
- Gross Weight : 13kg
- Net Weight : 13.5kg

Power Specifications

- Power Input : 9~36V DC input (isolation)

Environment Considerations

- Operating Temperature : -40°C to 70°C (with intelligent heater)
- Operating Humidity : 5 to 95%

External I/O

- 1 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)
- 1 x Non EX-Type USB 2.0 A Type

Internal Connectors: (open the back cover to reach)

- 1 x USB 2.0 terminal block
- 1 x LAN terminal block
- 1 x RS232/422/485 terminal block
- 1 x 9~36V DC input terminal block
- 1 x USB 3.0, 2 x USB 2.0 (female type)
- 1 x RJ45 LAN
- 1 x RS232/422/485 (DB9)
- 1 x VGA (DB15)



Note: All Specifications are subject to change without prior notice!

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Standards and Certifications

- Ordinary Location Safety : UL 60950-1
CSA C22.2 No. 60950-1-07
EN 60950-1
- CE, FCC,
• Shock : MIL-STD-810G Method 516.6
• Drop : MIL-STD-810G Method 516.6
• Vibration : MIL-STD-810G Method 514.6
• IP Rating : IP66 Meet Standard IEC60529
(for Non-Hazardous location)
IP54 Meet Standard IEC60079
(for Hazardous location)
- Hazardous Location Safety : Class I, Div.2, Groups A,B,C,D T4
-40 ≤ Tamb ≤ 70
Meet Standards
ANSI/ISA-12.12.01-2013
CSA Std. C22.2 No. 213-M1987

ATEX II 3G Ex nA ic IIC T4 Gc (Available now)
-40 ≤ Tamb ≤ 70
Meet Standards
EN 60079-0, EN 60079-11, EN 60079-15

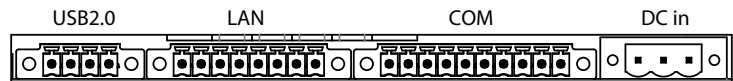
IECEX Ex nA ic IIC T4 Gc (Available now)
-40 ≤ Tamb ≤ 70
Meet Standards
IEC 60079-0, IEC 60079-11, IEC 60079-15

Accessories: (for testing purpose, Non EX)

- 24V 150W AC to DC Adapter
- Open wired power cable for M12 cable Gland
- SMA male to female extension cable for M12 cable Gland (Optional)
- Open wired LAN/COM cable for M16 cable Gland
- User's Manual
- System Recovery DVD (Optional)

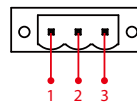
Pin Assignments

The pin assignments of the connectors are as follows:
(Cables are supplied by customer)



Power terminal block

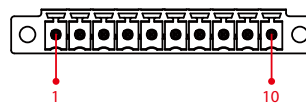
Pin	Signal Name
1	VCC+
2	VCC-
3	GND



*Power wire for VCC should be AMW 1015 18AWG 600V or above.

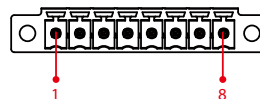
COM Port

Pin	Signal Name	Pin	Signal Name
1	DCD	2	RXD
3	TXD	4	DTR
5	GND	6	DSR
7	RTS	8	CTS
9	RI	10	+V5



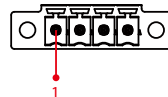
LAN Port

Pin	Signal Name	Pin	Signal Name
1	MDIO3-	2	MDIO3+
3	MDIO2-	4	MDIO2+
5	MDIO1-	6	MDIO1+
7	MDIO0-	8	MDIO0+



USB Port

Pin	Signal Name
1	VCC
2	D-
3	D+
4	GND



Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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