

# IBDRW100-EX-P

Intel® Atom® E3950 DIN Rail Box PC (C1D2 Certified)



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## KEY FEATURES

- Class 1, Division 2 device certified for hazardous area application
- DIN Rail design for Industrial Automation applications
- Onboard Intel® Atom® Processor E3950 1.6 GHz, up to 2.0 GHz
- 1 x RS232 / 422 / 485 communication, select thru BIOS
- 4 x Giga LAN, 3 x USB 3.0, 1 x USB 2.0, 1 x VGA, 1 x Line out, 1 x line in, 1 x Mic in, 1 x Power Jack
- Fanless, streamlined enclosure for highly efficient heat Dissipation
- -40°C~70°C wide operation temperature range
- AWS IoT Greengrass Certified



## SPECIFICATIONS

### System Specification

<b>WLAN</b>	802.11 a/b/g/n/ac (Optional)	<b>BT</b>	BT Support (Optional)
<b>Expansion Port</b>	1 x M.2 2230 E-key (for half size Wifi module) 1 x M.2 2242 B-key Slot (for SSD)	<b>Processor</b>	Intel® Atom® E3950 (2M Cache, up to 2.0 GHz) Intel® Atom® E3940 (2M Cache, up to 1.8 GHz) Intel® Atom® E3930 (2M Cache, up to 1.8 GHz)
<b>Memory</b>	1 x SO-DIMM, DDR3L 1866 MHz, 4GB 8GB (Optional)	<b>Storage</b>	1 x M.2 2242 B-key SSD 64GB M.2 2242 B-key SSD up to 512GB (Optional) 1 x SATA III for 2.5" SSD/HDD (Optional)
<b>Ethernet controller</b>	4 x Intel® Ethernet Controller I210-IT	<b>Security</b>	TPM 2.0
<b>Operating System</b>	Windows 10 IoT Enterprise (Optional) Linux Ubuntu 18.04 (Optional)		

### Mechanical

<b>Dimension</b>	139 x 65.4 x 152 mm	<b>Mounting</b>	Din-Rail Mounting
<b>Enclosure</b>	Aluminum Housing	<b>Cooling System</b>	Fanless design

### Environment

<b>Operating Humidity</b>	10% to 90% (non-condensing)	<b>Operating Temperature</b>	-40~70°C
<b>Storage Temperature</b>	-40~80°C	<b>Shock</b>	MIL-STD-810G Method 516.6
<b>Vibration</b>	MIL-STD-810G Method 514.6		

### Certification

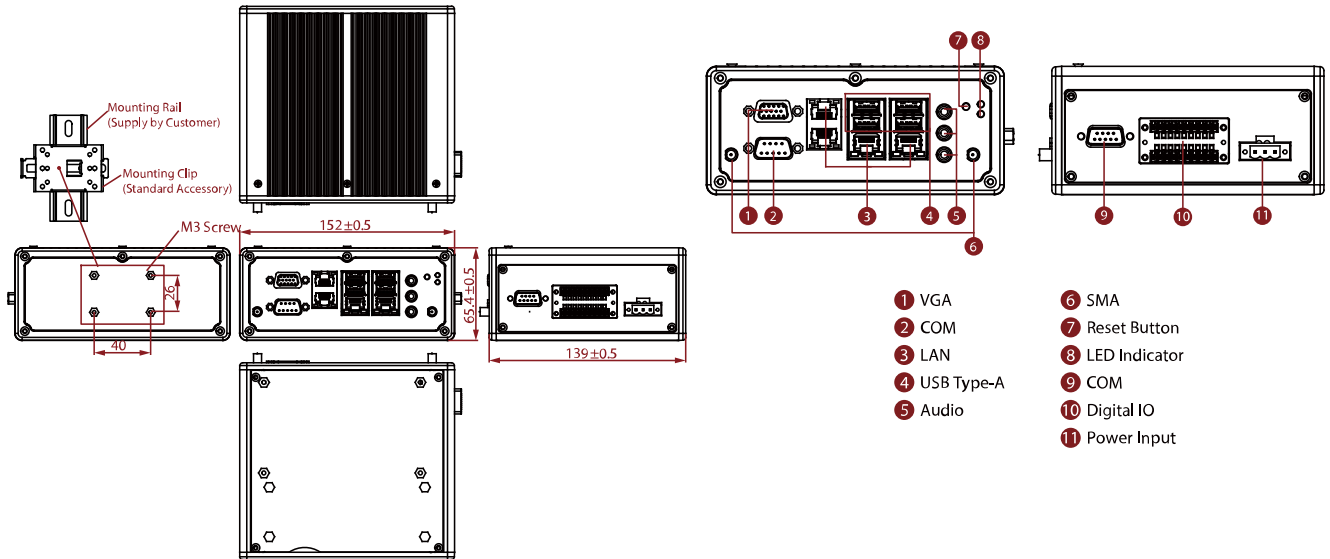
<b>Certification</b>	CE, FCC, IC  Ordinary Location Safety : UL/CSA 62368-1  Hazardous Location Safety: Class 1, Division 2, Group A, B, C, D Temperature Code T5
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### IO Ports

<b>Power Input</b>	1 x 9~36V DC, 3-Pin Terminal Block	<b>USB Port</b>	3 x USB3.0 (Type-A) 1 x USB2.0 (Type-A)
<b>Serial Port</b>	1 x RS232/422/485 (Default RS232) 1 x RS422/485 (Default RS422)	<b>Video</b>	1 x VGA
<b>Audio</b>	Mic in Line in	<b>Expansion Port</b>	1 x M.2 2230 E-key (for half size Wifi module)

LAN	Line out 4 x Giga LAN RJ45 Connector	Indicator	1 x LED Indicator for power 1 x LED Indicator for storage
DIDO	Terminal block with digital 9 in / 9 out		
<b>Control</b>			
Button	1 x Power Button		
<b>Accessory</b>			
Accessory	100~240V AC to DC Adapter Power Cord 2 x Terminal Block 10 pin fconnector for DIDO Open Wire Cable with terminal block connector Terminal Block 3 pin to 2.5Ø Female Adapter Cable Driver CD & Manual Din Rail Mounting kits Cable Holder kits		
<b>Power</b>			
Power Rating	9V to 36V DC with isolation, 3-Pin Terminal Block	Adapter	12V 84W

## DIMENSIONS UNIT:MM



## NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. Length measurements do not include protrusions. Weight varies with options.
3. Measured at maximum backlight and high CPU load.
4. Accessories and integrated options may vary depending on your configuration
5. This is a simplified drawing and some components are not marked in detail.
6. All specifications are subject to change without prior notice.
7. 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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