IBDRW100-EX-P
Intel® Atom® E3950 ATEX Rugged Box PC (C1D2 Certified)

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
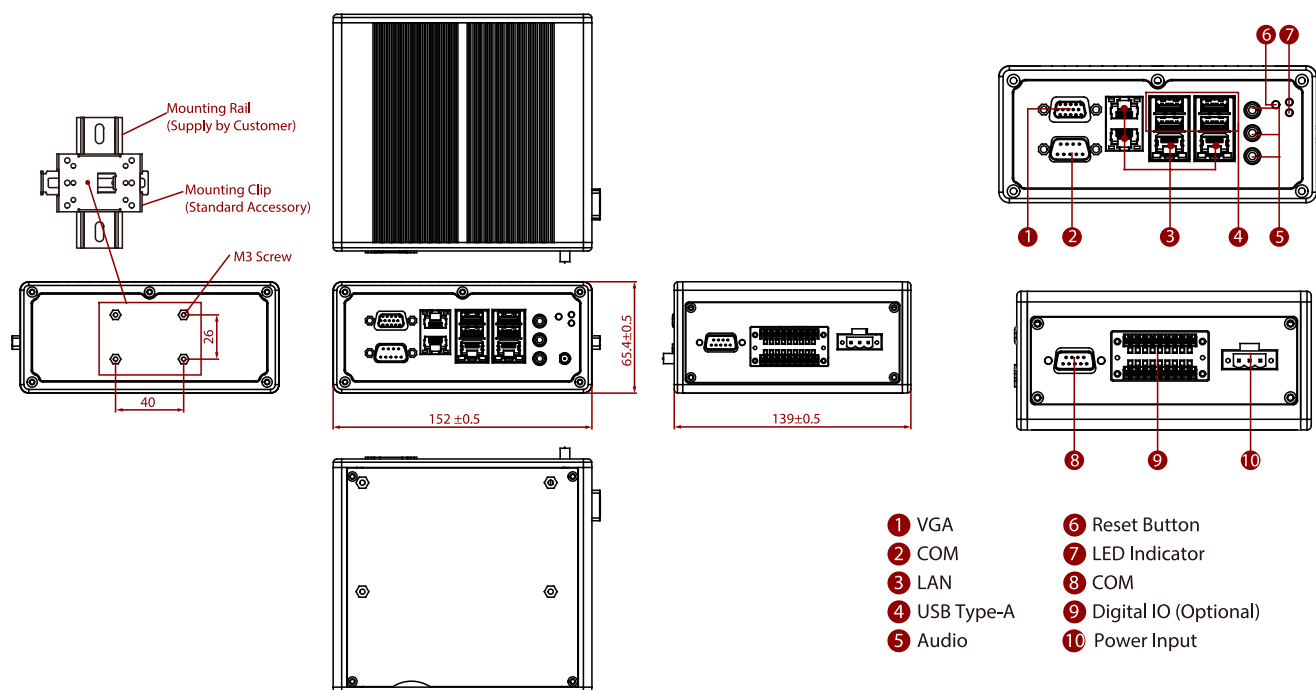- AWS IoT Greengrass Certified, ATEX rugged box pc

SPECIFICATIONS

System Specification

WLAN	Support (Optional)	**BT**	Support (Optional)
Expansion Port	1 x M.2 2230 E-key (for half size Wifi module) 1 x M.2 2242 B-key Slot (for SSD)	**Processor**	Intel Atom E3950 1.6GHz (up to 2GHz) Intel Atom E3940 1.6GHz (up to 1.8GHz) Intel Atom E3930 1.3GHz (up to 1.8GHz)
Memory	1 x SO-DIMM, DDR3L 1866 MHz, 4GB 8GB (Optional)	**Storage**	1 x M.2 2242 B-key SSD 128GB M.2 2242 B-key SSD up to 512GB (Optional) 1 x SATA III for 2.5" SSD/HDD (Optional)
Ethernet controller	4 x Intel® Ethernet Controller	**Security**	TPM 2.0
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 20.04 (Optional)		

Mechanical

Dimension	139 x 65.4 x 152 mm	**Mounting**	Din-Rail Mounting
Enclosure	Aluminum Housing	**Cooling System**	Fanless design

Environment

Operating Humidity	10% to 90% RH, Non-Condensing	**Operating Temperature**	-40°C to 70°C
Storage Temperature	-40°C to 80°C	**Shock**	MIL-STD-810G Method 516.6 Procedure I (Optional)
Vibration	MIL-STD-810G Method 514.6 Procedure I		

Certification

Certification	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

IO Ports

Power Input	1 x 9~36V DC, 3-Pin Terminal Block	**USB Port**	3 x USB3.2 Gen1x1 (Type-A) 1 x USB2.0 (Type-A)
Serial Port	1 x RS232/422/485 (Default RS232) 1 x RS422/485 (Default RS422)	**Video**	1 x VGA
Audio	Mic in Line in	**Expansion Port**	1 x M.2 2230 E-key (for half size Wifi module)

	Line out		
LAN	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 (Optional)		

Control			
Button	1 x Power Button		

Accessory			
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 Din Rail Mounting kits Cable Holder kits		

Power			
Power Rating	9V to 36V DC with isolation, 3-Pin Terminal Block	**Adapter**	12V 84W

DIMENSIONS UNIT:MM

1 VGA
2 COM
3 LAN
4 USB Type-A
5 Audio
6 Reset Button
7 LED Indicator
8 COM
9 Digital IO (Optional)
10 Power Input

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.