

IBDRW100-EX

ATEX DIN Rail PC (C1D2 Certified) with Intel® Celeron® N2930



KEY FEATURES

- Class 1, Division 2 & ATEX Zone 2 device certified for hazardous area application
- Designed for industrial automation, DIN Rail application
- Intel® Celeron® N2930 Bay Trail-M Processor
- 1 x RS232 / 422 / 485 communication, switch by jump
- 4 x Giga LAN, 1 x USB 3.0, 3 x USB 2.0, 1 x VGA, 1 x Line out, 1 x Power Jack
- Fanless, streamlined enclosure for highly efficient heat dissipation
- Rated for wide temperature use -20°C to 60°C
- AWS IoT Greengrass Certified

INTRODUCTION

Winmate DIN Rail ATEX Box PC Series is a robust and reliable computing solution designed for hazardous industrial environments. Certified for Class 1, Division 2, and ATEX Zone 2, it ensures safe operation in hazardous areas while delivering high performance with Intel processors. Built with a fanless design for efficient heat dissipation, it withstands wide temperature ranges and challenging conditions. Ideal for industrial automation, remote data collection, and process control, this rugged box PC is a versatile choice for demanding applications.

SPECIFICATIONS

System Specification

Processor	Intel Celeron N2930 1.83GHz (up to 2.16GHz)	Memory	1 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)
Storage	1 x mSATA SSD 128GB 256GB (Optional) 512GB (Optional) 1 x SATA III for 2.5" SSD/HDD (Optional)	Ethernet controller	4 x Intel® Ethernet Controller
Security	TPM (Optional)	Operating System	Windows 7 Embedded Systems (Optional) Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 20.04 (Optional)
WLAN	Support (Optional)	BT	Support (Optional)
Expansion Port	1 x mPCIe slot(for Wi-Fi) 1 x mPCIe slot(for SSD)		

Mechanical

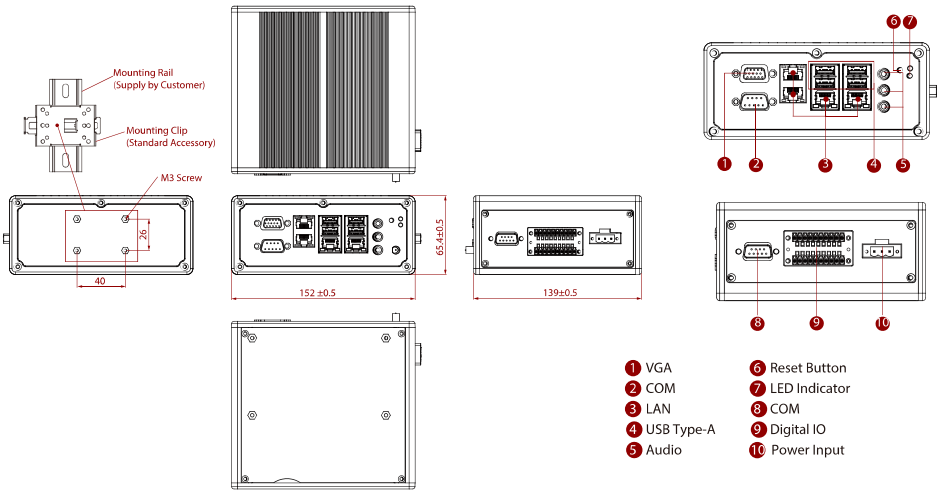
Dimension	139 x 65.4 x 152 mm	Weight	1.5 kg
Mounting	Din-Rail mounting	Enclosure	Aluminum Housing
Cooling System	Fanless Design		

Environment

Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	-20°C to 60°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							
		UL 508							
		CSA C22.2 No.142-m1987							
		UL 60950-1							
		CSA C22.2 No. 60950-1-07							
		EN 62368-1							
		Class I, Div.2, Groups A,B,C,D							
		-20 <= Tamb <= 60							
		Meet Standards							
		ANSI/ISA-12.12.01-2013-6-03							
		CAN/CSA C22.2 No. 213-M1987							
		ATEX II 3G Ex nA IIC T4 Gc							
		-20 <= Tamb <= 60							
		Meet Standards							
		EN 60079-0, EN 60079-15							
IO Ports									
Power Input		1 x Isolated 9~36V DC with 3-Pin Terminal Block			USB Port		1 x USB3.2 Gen1x1 (Type-A) 3 x USB2.0 (Type-A)		
Serial Port		1 x RS232/422/485 DB9 connector (Default RS232) 1 x Isolated RS422/485 DB9 connector (Default RS422)			Video		1 x VGA DB15 connector		
Audio		Mic in Line in Line out			Expansion Port		1 x mPCIe slot(for SSD) 1 x mPCIe slot(for Wi-Fi module)		
LAN		4 x Giga LAN RJ45 Connector (one of them is disabled if WLAN module is added)			Indicator		1 x LED Indicator for power 1 x LED Indicator for storage		
DIDO		1 x Isolated 5V 9-in/9-out DIO with 20-Pin Terminal block 1 x Isolated 30V 9-in/8-out DIO with 20-Pin Terminal block (Optional) 1 x Isolated 30V 10-in/7-out DIO with 20-Pin Terminal block (Optional) 1 x Isolated 30V 11-in/6-out DIO with 20-Pin Terminal block (Optional) 1 x Isolated 30V 12-in/5-out DIO with 20-Pin Terminal block (Optional)							
Control									
Button		1 x Reset Button							
Accessory									
Accessory		1 x 100~240V AC to DC Adapter 1 x Power Cord 2 x Terminal Block 10 pin fconnector for DIDO 1 x Open Wire Cable 1 x Terminal Block 3 pin to 2.5Ø Female Adapter Cable 1 x Din Rail Mounting kits 1 x Cable Holder kits							
Power									
Power Rating		9V to 36V DC with isolation, 3-Pin Terminal Block			Adapter		12V 36W		

DIMENSIONS UNIT:MM



NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. LAN3 disabled if WLAN Module is added.
3. Length measurements do not include protrusions. Weight varies with options.
4. Measured at maximum backlight and high CPU load.
5. Accessories and integrated options may vary depending on your configuration
6. This is a simplified drawing and some components are not marked in detail.
7. All specifications are subject to change without prior notice.
8. 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.