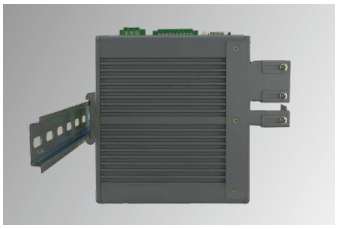
IBDRW100-EX, DIN Rail HazLoc Box PC

A Box PC that Works in Hazardous Locations and Withstands Extreme Temperatures

IBDRW100-EX is a DIN Rail Box PC with a set of features designed to withstand industrial use in hazardous locations and extreme temperatures while providing high tech solutions that increase productivity, improve safety, and reduce operational costs.
The processing power comes from Intel's Bay Trail-M N2930 processor for high performance and low power consumption. Certified for use in Class 1, Division 2 & ATEX Zone 2 locations IBDRW100-EX device delivers processing power in rugged housing.



Highlights

- Class 1, Division 2 & ATEX Zone 2 device certified for hazardous area application
- Designed for industrial automation, DIN Rail application
- Atom N2600 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

Order Information		
	WLAN	4G
IBDRW100-EX	Optional	Optional

IBDRW100-EX, DIN Rail HazLoc Box PC

A Display that Works in Hazardous Locations and Withstands Harsh Environments

System Specification

Processor	Intel Bay Trail-M N2930 Processor 2M Cache, 1.83 GHz, up to 2.16 GHz with turbo boost technology
System Chipset	Bay Trail SoC Chipset
System Memory	4GB DDR3L SO-DIMM 1333 MHz [1] Optional up to 8 GB
Storage	64GB mSATA solid state drive SSD Optional up to 256GB
Second Storage	Optional second storage 2.5" SSD 64GB to 256GB
Ethernet Controller	Intel i210 GbE LAN
Operating System	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded 8 Standard Windows 7 Pro for Embedded System Windows Embedded Standard 7

Wireless Communication

WLAN	802.11 a/b/g/n (Optional)
4G	Optional 4G (U2MPE.120)

Interface

Serial Interface	1 x RS-232 (D-Sub 9) (Default), RS422/485 switch by jumper 1 x Isolated RS-422 (D-Sub 9) (Default), RS485 switch by jumper
LAN	4 x Giga LAN [2]
USB	1 x USB 3.0 3 x USB 2.0
VGA	1 x VGA (D-Sub 15)
Digital I/O	1 x 20 pin terminal block DIDO (9 in / 9out)
Power Input	DC Power 3 pin terminal block
Audio	Line Out, Line In, Mic In

Keyboard and Input

Button	Button 1 x power, 1 x reset
LED Indicators	Power, Storage

Mechanical and Environment

Dimension (W x L x H)	139 x 64.5 x 152 mm (5.47 x 2.54 x 5.98 inches) [3]
Gross Weight	6 kg (13.23 lbs) [3]
Net Weight	6.5 kg (14.33 lbs) [3]
Mounting	DIN Rail
Cooling System	Fanless
Operating Temperature	-20° to 60°C (-4° to 140°F)
Storage Temperature	-40° to 80°C (-40° to 176°F)
Humidity	5% to 95% RH, non-condensing
Ordinary Location Safety	UL60950-1, CSA C22.2 No. 60950-1-07, EN60950-1, IEC60950-1
Hazardous Location Safety	ATEX II 3 G Ex nA IIC T4 Gc Class 1, Division 2, Group A, B, C, D Temperature Code T4A UL508
Shock	MIL-STD-810F/G Method 516.6
Vibration	MIL-STD-810F/G Method 514.6

Power Management

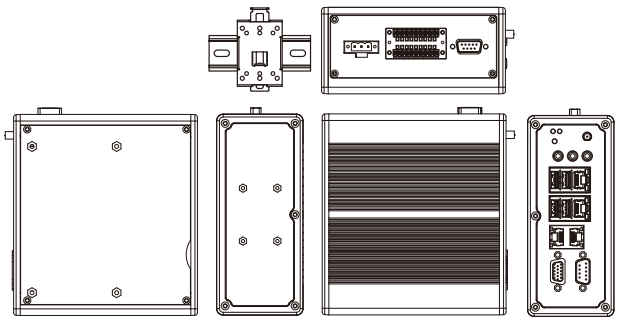
Power Input	9-36V DC (isolation)
Power Consumption	25W (typ.) [4]
Adapter	12V / 36W

Accessories

Standard Accessories

Power Adapter(For testing only)	922D036W12V6
Power Cord	Varies by product destination
Open Wire Power Cable	94EL02X020E0
Terminal Block 10 pin female connector for DIDO x 2	604530005D01
Terminal Block 3 pin to 2.5 Ø female adapter cable	94J602G030K0
Cable Holder Kit	821118561K00 x 2 821118561K01 / 821118561K02
DIN Rail Mounting Clip	90ME01000000

Drawing [5]



Caution

Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example)
Do not expose bare skin to this product when handling this unit in extreme hot or cold environments

1. Total usable memory will be less depending 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.

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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