

IBDRW100-EX-P, DIN Rail HazLoc Box PC

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

IBDRW100-EX-P 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 Pentium Processor N4200 for high performance and low power consumption. Certified for use in Class 1, Division 2 & ATEX Zone 2 locations IBDRW100-EX-P 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
- Intel® Pentium® Processor N4200 1.1GHz up to 2.56GHz
- 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
- Rated for wide temperature use -20°C to 60°C
- AWS IoT Greengrass Certified

Order Information		
	WLAN	4G
IBDRW100-EX-P	Optional	Optional







IBDRW100-EX-P, DIN Rail HazLoc Box PC

A Display that Works in Hazardous Locations and Withstands Harsh Environments

System Specification

Processor Intel® Pentium® Processor N4200 1.1GHz

up to 2.56GHz

System Memory SO-DIMM DDR3L-1866 Max. 8GB

Storage 1 x SATAIII

1 x M.2 (2242 KEY B, SATAIII)

BIOS Insyde BIOS

Graphic Intel® HD Graphics 505

LAN 4 x Giga LAN (Intel® I210-IT Gigabit-LAN Controller)

Audio Reultek HD Audio Codec

Operating System Windows 10 IoT Enterprise / Ubuntu 18.04LTS

Wireless Communication

WLAN 1 x M.2 (KEY E, Full WiFi) (Optional)

4G Optional 4G

Interface

External I/O 3 x USB 3.0

1 x USB 2.0

 $4 \times \text{RJ-}45$ for Giga LAN with LED

1 x VGA

1 x RS232 (Default), RS422/485 switch by BIOS

1 x Isolated RS422(Default), RS485 Switch by

jumper

1 x Audio Jack (Mic-in, Line-out, Line-in)

1 x clear CMOS & reset button

1 x DIDO(9in, 9out)

1 x DC Power 3pin Terminal Block

Keyboard and Input

Button Button, 1 x reset LED Indicators Power, Storage

Mechanical and Environment

Dimension (W x L x H) 139 x 65.4 x 152 mm (5.47 x 2.54 x 5.98 inches) ²

Gross Weight 6 kg (13.23 lbs) ²
Net Weight 6.5 kg (14.33 lbs) ²
Mounting DIN Rail
Cooling System Fanless

Operating Temperature -20° to 60°C (-4° to 140°F)
Storage Temperature -40° to 70°C (-40° to 158°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

Shock MIL-STD-810F/G Method 516.6 Vibration MIL-STD-810F/G Method 514.6

Certification

IoT AWS IoT Greengrass Certified

Power Management

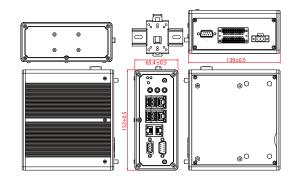
Power Input 9-36V DC (isolation)
Power Consumption 25W (typ.) ³
Adapter 12V / 36W

Accessories

Standard Accessories 4

Power Adapter(For testing only) 922D036W12V6 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 98K000A000E0 DIN Rail Mounting Clip 90ME01000000 Terminal Block 3 pin for Paner 604520105001

Drawing





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 Caution hot or cold environments

- 1. Total usable memory will be less depending upon actual system configuration.
- Length measurements do not include protrusions. Weight varies with options
- 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.





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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