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

aws qualified device internet of things

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 [1]
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 x 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

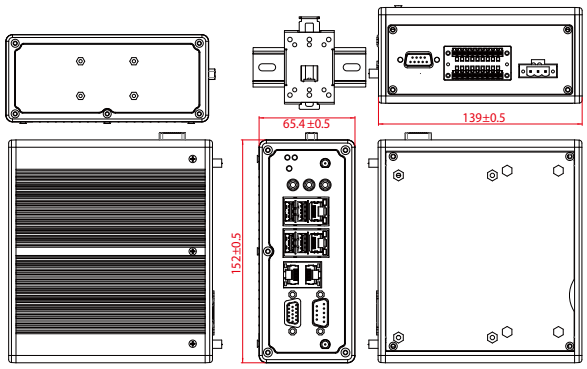
Power Input	9-36V DC (isolation)
Power Consumption	25W (typ.) [3]
Adapter	12V / 36W

Accessories

Standard Accessories [4]

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

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. 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.