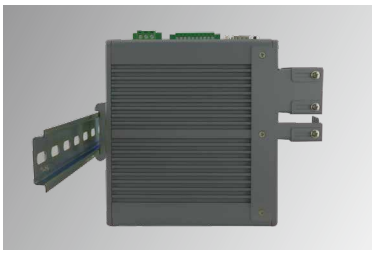
# IBDRW100-EX, DIN Rail HazLoc Box PC

## 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<br>2M Cache, 1.83 GHz,<br>up to 2.16 GHz with turbo boost technology |
| System Chipset | Bay Trail SoC Chipset |
| System Memory | 4GB DDR3L SO-DIMM 1333 MHz [1]<br>Optional up to 8 GB |
| Storage | 64GB mSATA solid state drive SSD<br>Optional up to 256GB |
| Second Storage | Optional second storage 2.5" SSD<br>64GB to 256GB |
| Ethernet Controller | Intel i210 GbE LAN |
| Operating System | Windows 10 IoT Enterprise<br>Windows Embedded 8.1 Industry Pro<br>Windows Embedded 8 Standard<br>Windows 7 Pro for Embedded System<br>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),<br>RS422/485 switch by jumper<br>1 x Isolated RS-422 (D-Sub 9) (Default),<br>RS485 switch by jumper |
| LAN | 4 x Giga LAN [2] |
| USB | 1 x USB 3.0<br>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<br>Class 1, Division 2, Group A, B, C, D<br>Temperature Code T4A<br>UL508 |
| Shock | MIL-STD-810F/G Method 516.6 |
| Vibration | MIL-STD-810F/G Method 514.6 |

### Power Management

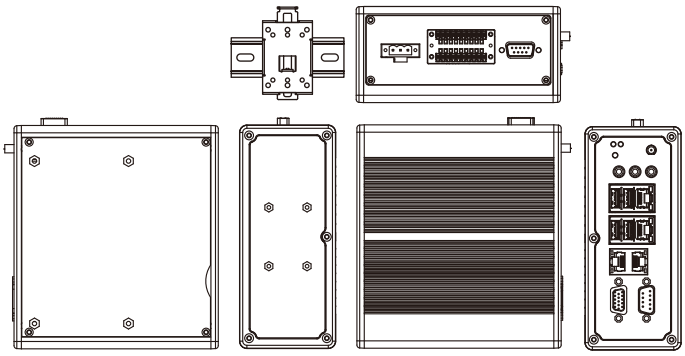
| | |
|---|---|
| Power Input | 9-36V DC (isolation) |
| Power Consumption | 25W (typ.) [4] |
| Adapter | 12V / 36W |

### 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<br>821118561K01 /<br>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.