

# IBDRW100-EX

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



## 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



## SPECIFICATIONS

### System Specification

|                       |                                                                                               |                            |                                                                                                                |
|-----------------------|-----------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Processor</b>      | Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)                                              | <b>Memory</b>              | 1 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)                                                                |
| <b>Storage</b>        | 1 x mSATA SSD 64GB<br>mSATA SSD up to 512GB (Optional)<br>1 x SATA II for 2.5" HDD (Optional) | <b>Ethernet controller</b> | 4 x Intel® Ethernet Controller I210-IT                                                                         |
| <b>Security</b>       | TPM 2.0                                                                                       | <b>Operating System</b>    | Windows 7 Embedded Systems (Optional)<br>Windows 10 IoT Enterprise (Optional)<br>Linux Ubuntu 18.04 (Optional) |
| <b>WLAN</b>           | Support (Optional)                                                                            | <b>BT</b>                  | Support (Optional)                                                                                             |
| <b>Expansion Port</b> | 1 x mPCIe slot(for half size Wifi module)<br>1 x mPCIe slot(for SSD)                          |                            |                                                                                                                |

### Mechanical

|                  |                     |                       |                   |
|------------------|---------------------|-----------------------|-------------------|
| <b>Dimension</b> | 139 x 65.4 x 152 mm | <b>Mounting</b>       | Din-Rail Mounting |
| <b>Enclosure</b> | Aluminum Housing    | <b>Cooling System</b> | Fanless design    |

### Environment

|                            |                             |                              |                           |
|----------------------------|-----------------------------|------------------------------|---------------------------|
| <b>Operating Humidity</b>  | 10% to 90% (non-condensing) | <b>Operating Temperature</b> | -20~60°C                  |
| <b>Storage Temperature</b> | -40~80°C                    | <b>Shock</b>                 | MIL-STD-810G Method 516.6 |
| <b>Vibration</b>           | MIL-STD-810G Method 514.6   |                              |                           |

### Certification

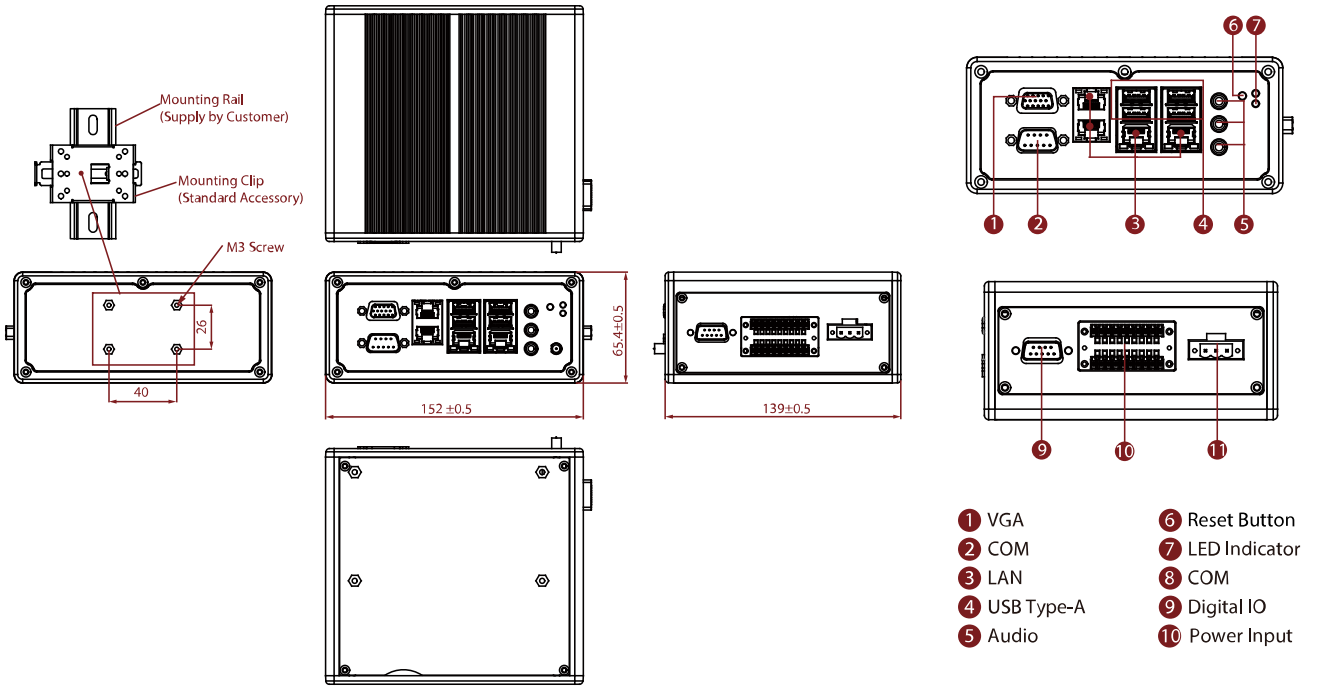
|                      |                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Certification</b> | CE, FCC<br><br>Ordinary Location Safety:<br>UL60950-1, CSA C22.2 No. 60950-1-07, EN 62368-1, IEC60950-1<br><br>Hazardous Location Safety:<br>ATEX II 3 G Ex nA IIC T4 Gc<br>Class 1, Division 2, Group A, B, C, D<br>Temperature Code T4A |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| IO Ports           |                                                                                                                                                                                                                                                                        |                       |                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------|
| <b>Power Input</b> | 1 x 9~36V DC, 3-Pin Terminal Block                                                                                                                                                                                                                                     | <b>USB Port</b>       | 1 x USB3.0 (Type-A)<br>3 x USB2.0 (Type-A)                   |
| <b>Serial Port</b> | 1 x RS232/422/485 (Default RS232)<br>1 x RS422/485 (Default RS422)                                                                                                                                                                                                     | <b>Video</b>          | 1 x VGA                                                      |
| <b>Audio</b>       | Mic in<br>Line in<br>Line out                                                                                                                                                                                                                                          | <b>Expansion Port</b> | 1 x mPCIe slot(for half size Wifi module)                    |
| <b>LAN</b>         | 4 x Giga LAN RJ45 Connector<br>(one of them is disabled if WLAN module is added)                                                                                                                                                                                       | <b>Indicator</b>      | 1 x LED Indicator for power<br>1 x LED Indicator for storage |
| <b>DIDO</b>        | Terminal block with digital 9 in / 9 out                                                                                                                                                                                                                               |                       |                                                              |
| Control            |                                                                                                                                                                                                                                                                        |                       |                                                              |
| <b>Button</b>      | 1 x Power Button                                                                                                                                                                                                                                                       |                       |                                                              |
| Accessory          |                                                                                                                                                                                                                                                                        |                       |                                                              |
| <b>Accessory</b>   | 100~240V AC to DC Adapter<br>Power Cord<br>2 x Terminal Block 10 pin fconnector for DIDO<br>Open Wire Cable with terminal block connector<br>Terminal Block 3 pin to 2.5Ø Female Adapter<br>Cable<br>Driver CD & Manual<br>Din Rail Mounting kits<br>Cable Holder kits |                       |                                                              |

| Power               |                                                   |                |         |
|---------------------|---------------------------------------------------|----------------|---------|
| <b>Power Rating</b> | 9V to 36V DC with isolation, 3-Pin Terminal Block | <b>Adapter</b> | 12V 36W |

**DIMENSIONS** UNIT:MM

**Winmate IBDRW100-EX**



## 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.