PC/104-Plus SBC with Intel® Atom™/Celeron® on-board SoC with DDR3L, VGA, LVDS, GbE, USB 2.0, SATA 3Gb/s, RS-232/422/485 and 5V DC input, RoHS

Specifications

- **SoC**
  - Intel® Atom™ E3845 on-board SoC (1.91GHz, quad-core, 2MB cache, TDP=10W)
  - Intel® Atom™ E3827 on-board SoC (1.75GHz, dual-core, 1MB cache, TDP=8W)
  - Intel® Atom™ E3826 on-board SoC (1.46GHz, dual-core, 1MB cache, TDP=7W)
  - Intel® Atom™ E3825 on-board SoC (1.14GHz, dual-core, 1MB cache, TDP=6W)
  - Intel® Atom™ E3815 on-board SoC (1.0GHz, single-core, 512KB cache, TDP=5W)
- **Intel® Celeron®**
  - Intel® Celeron® J1900 on-board SoC (2GHz, quad-core, 2MB cache, TDP=10W)
  - Intel® Celeron® N2930 on-board SoC (1.83GHz, quad-core, 2MB cache, TDP=7.5W)
  - Intel® Celeron® N2807 on-board SoC (1.58GHz, dual-core, 2MB cache, TDP=4.3W)
- **BIOS**
  - AMI UEFI BIOS
- **Memory**
  - One 204-pin 1333/1066 MHz single-channel DDR3L SO-DIMM supports up to 8 GB (J1900, N2930, E3845, E3827, E3826, E3825, E3815) or 4 GB (N2807)
- **Graphics Engine**
  - Intel® HD Graphics Gen 7 Engine with four execution units, supporting DX11.1, OpenGL 4.2 and OpenCL 1.2
- **Display Output**
  - Dual independent display
  - 1 x VGA (up to 2560x1600@60 Hz)
  - 1 x 18/24-bit single-channel LVDS (2x10 pin)
- **Ethernet**
  - 1 x Intel® I210
- **Super I/O**
  - Fintek F81866
- **Internal I/O Interface**
  - 1 x SATA 3Gb/s with 5V SATA power connector
  - 3 x USB 2.0 (1x4 pin, P=1.25)
  - 2 x RS-232/422/485 (2x5, P=2.0)
- **Storage**
  - On-board SSD (optional, support by request)
- **Front Panel**
  - 1 x 10-pin header, P=2.0 (power LED, HDD LED, power button and reset button)
- **Expansion**
  - 1 x Full-size PCIe Mini slot (supports mSATA)
  - 1 x PC/104-Plus (ISA+PCI)
- **Digital I/O**
  - 1 x 8-bit digital I/O (2x5 pin, P=2.0)
- **Power Supply**
  - 5V DC input
  - 12V for fan, LVDS and PC/104-Plus
  - 5V for PC/104-Plus (1x3 pin, P=2.0)
  - 12V for PC/104-Plus (1x3 pin, P=2.0)
  - 3.3V jumper for PCI-104 plus
- **Support AT/ATX mode**
- **ErP/EuP Compliant**
- **Watchdog Timer**
  - Software programmable, supports 1~255 sec. system reset
- **Operating Temperature**
  - -20°C ~ 60°C (for J1900/N2930/N2807)
  - -40°C ~ 85°C (for E38xx)
- **Storage Temperature**
  - -4°C ~ 85°C
- **Thermal**
  - Heatsink
- **Operating Humidity**
  - 5% ~ 95%, non-condensing
- **Dimensions**
  - 96 mm x 90 mm
- **Weight**
  - GW: 500g / NW 120g
- **CE/FCC compliant**

Features

- **PC/104 form factor SBC supports 22nm Intel® Atom™ on-board SoC**
- **PC/104-Plus (ISA and PCI signal) function support**
- **5V DC input solution**
- **Support 2 COM, PCIe Mini, USB and optional on-board SSD**
- **Dual display from VGA and LVDS**
- **Wide range temperature support from -40°C ~ 85°C (for E38xx series CPU)**
- **IEI One Key Recovery solution allows you to create rapid OS backup and recovery**

Dimensions (Unit: mm)

Packing List

- 1 x PM-BT single board computer
- 1 x SATA cable kit
- 1 x COM port cable
- 1 x Single-port USB cable
- 1 x LAN cable
- 1 x VGA cable

Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>PM-BT-J19001-R10</td>
<td>PC/104-Plus Single Board Computer with Intel® Atom™ J1900 SoC with DDR3L, VGA, LVDS, USB 2.0, SATA 3Gb/s, GbE, RS-232/422/485 and 5V DC input, RoHS</td>
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<tr>
<td>PM-BT-N28071-R10</td>
<td>PC/104-Plus Single Board Computer with Intel® Atom™ N2807 SoC with DDR3L, VGA, LVDS, USB 2.0, SATA 3Gb/s, GbE, RS-232/422/485 and 5V DC input, RoHS</td>
</tr>
<tr>
<td>PM-BT-E38451W2-R10</td>
<td>PC/104-Plus Single Board Computer with Intel® Atom™ E3845 SoC with DDR3L, VGA, LVDS, USB 2.0, SATA 3Gb/s, GbE, RS-232/422/485 and 5V DC input, RoHS</td>
</tr>
<tr>
<td>PM-BT-E38251W2-R10</td>
<td>PC/104-Plus Single Board Computer with Intel® Atom™ E3825 SoC with DDR3L, VGA, LVDS, USB 2.0, SATA 3Gb/s, GbE, RS-232/422/485 and 5V DC input, RoHS</td>
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Note: Models with other CPUs not listed in the table are requested by MOQ - 100 pcs/lot.