

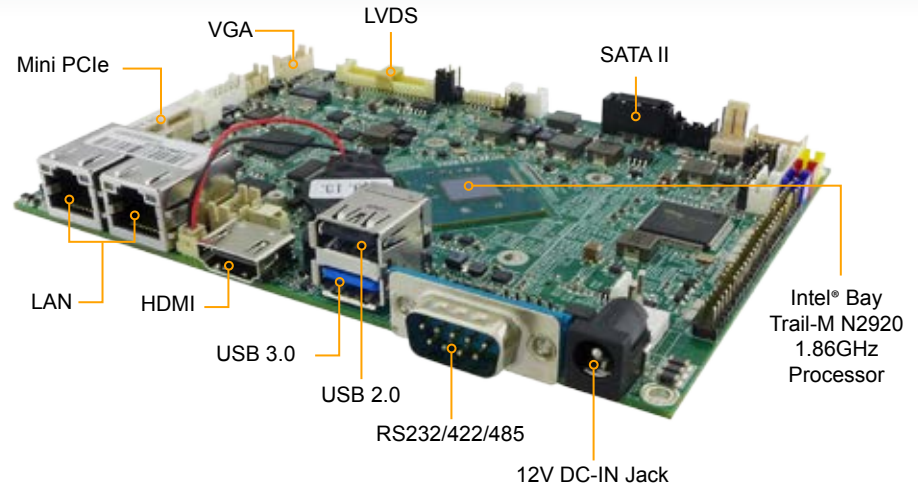
IB32 3.5" SBC

W/DC 12V Input

Intel® Celeron® Bay Trail-M N2930 Processor, 3.5" Motherboard

Features

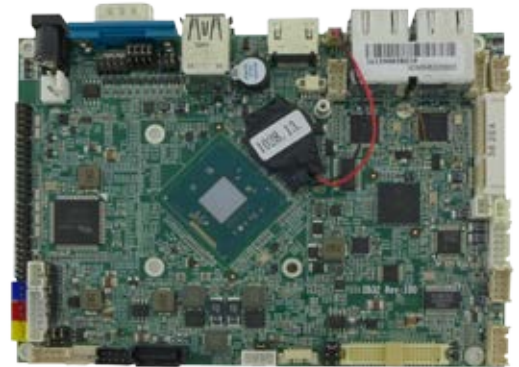
- 3.5" Form Factor (146 mm x 102 mm)
- Intel® Celeron® N2930 1.83GHz Processor
- Intel® ATOM SoC Integrated
- Integrated VGA, Dual-channel 24-bit LVDS, HDMI
- 1 x DDR3L SO-DIMM 1066 MHz, max. 8GB
- Integrated Intel® WG82574L Ethernet
- Supports 1 x SATA II, 4 x COM, 1 x USB 3.0, 5 x USB 2.0
- 12 x GPIO, 1 x 1394b, 1 x Mini PCIe slot



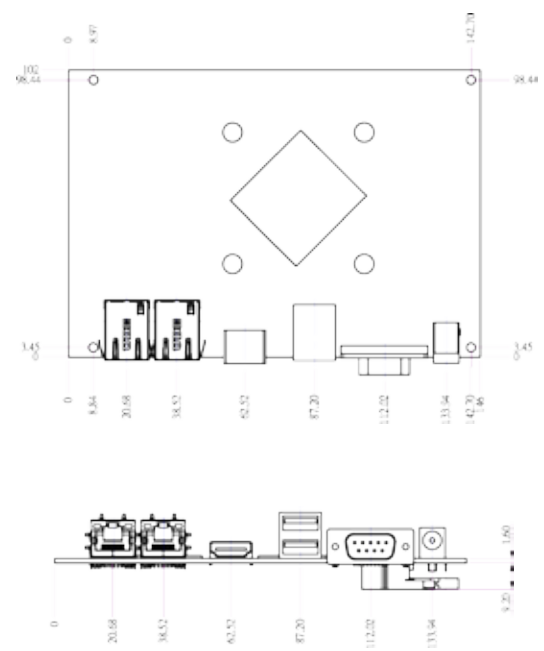
Specification

| | | |
|----------------------------|-----------------------|---|
| System Specification | Processor | Intel® Celeron® Bay Trail-M N2930 1.83GHz (2M Cache, up to 2.00 GHz) |
| | System Memory | DDR3L 1066 MHz SO-DIMM Slot, Max. 8GB |
| | Chipset | Intel ATOM SoC Integrated |
| | Super IO Chipset | Fintek F81866 |
| Display Specification | LCD Interface | Dual-channel 18/24 bit LVDS Up to 1920 x 1080 @ 60Hz |
| | Graphic Resolution | VGA Mode : Up to 1600 x 1200 @ 60Hz HDMI : 1920 x 1080 @ 60Hz |
| Audio | Codec | Realtek ALC886 HD Audio Codec |
| | Audio Interface | Line-in, Line-out, Mic in |
| Ethernet | LAN | Intel WG82574L GbE LAN x 2 |
| | Ethernet Interface | 1000 Base-Tx Gigabit Ethernet Compatible |
| I/O Connectors | Rear I/O | 2 x RJ-45 1 x HDMI 1 x USB 3.0, 1 x USB 2.0 1 x RS232 / 422 / 485 1 x DC-in Power Jack (+12V) |
| | Internal I/O | 3 x RS-232 / 10-pin(2x5) 4 x USB 2.0 / 8-pin(2x4) 1 x LVDS / 40-pin(2x20) DF-13 connector 1 x SATA II 1 x SATA Power 1 x Digital I/O(12-bit GPIO) / 14-pin(2x7) 1 x Power-input / 2-pin 1 x +12V for external power(Yellow) / 2-pin 1 x +5V for external power(Red) / 2-pin 1 x +3.3V for external power(Blue) / 2-pin 1 x Fan / 3-pin 1 x Panel inverter / 7-pin 1 x Front panel / 10-pin(2x5) 1 x Backlight brightness controller / 3-pin 2 x Speaker with Amp. / 2-pin 1 x VGA / 10-pin(2x5) 1 x 1394b / 10-pin(2x5) 1 x Audio (Mic-in / Line-in / Line-out) / 12-pin(2x6) 1 x Battery / 2-pin |
| | Expansion Slot | 1 x Mini PCIe slot (for USB 2.0 wireless module) 1 x Mini PCIe slot (for SATA II SSD) |
| | Dimensions (L x W) | 146 mm x 102 mm / 5.7 x 4 inches (3.5" Form Factor) |
| Mechanical and Environment | Operating Temperature | -10 deg.C to 70 deg.C |
| | Storage Temperature | -40 deg.C to 85 deg.C |
| | Humidity | 10~95% RH@400C, non-condensing |
| Power Management | Power Requirement | 12V DC-IN Power Jack |
| Operation System | OS Support | Windows Embedded 8 Standard/ Pro |
| Packing List | | IB32 Single Board Computer IB32 SBC User Manual IB32 Manual & Driver CD |

Top View



Board Dimension



| Rev. | Reasons | Revised Date |
|------|---------------|--------------|
| 1.0 | First release | Dec.31.13 |
| 1.1 | Spec change | Apr.15.14 |