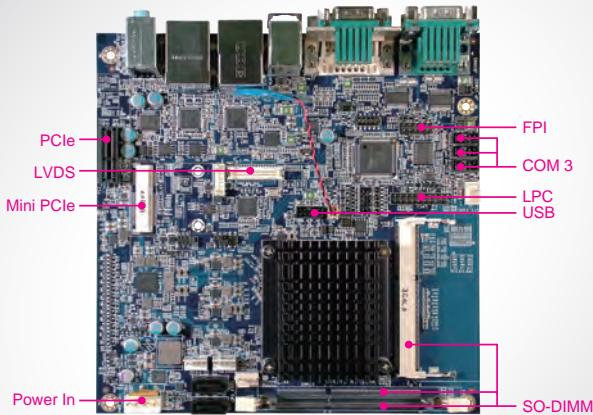


BM-0962

Mini-ITX Intel® Celeron® J1900 / N2000 Series / Atom™ E3800 Series SoC



Features



- Intel® Celeron® J1900 / N2000 series SoC
- Intel® Atom™ E3800 series SoC
- Supports wide-ranged temperature
- 4 x COM, 6 x USB, 2 x PS/2, 2 x LAN
- 1 x DVI-I, 1 x LVDS
- 1 x PCIe (x1), 1 x half-sized mPCIe, 2 x SATA

Specifications

System

| | |
|-------------------|---|
| CPU Support | Intel® Atom™ E3815: 5W, 1C, 1.46GHz Intel® Atom™ E3827: 8W, 2C, 1.75GHz Intel® Celeron® N2807: 4.3W, 2C, 1.58/2.16GHz Intel® Celeron® N2930: 7.5W, 4C, 1.83/2.16GHz Intel® Celeron® J1900: 10W, 4C, 2.0/2.42GHz |
| Chipset | Bay Trail SoC |
| Memory Support | 2 x SO-DIMM socket, supporting 1066/1333MHz DDR3L up to 8G (non-ECC) (E3815/N2807 SKU supports only 1 x SO-DIMM) |
| BIOS | AMI BIOS |
| Watchdog | 1~255 seconds watchdog timer selectable |
| Power Supply | DC In 12V only (internal 1 x 4 pin connector) |
| Power Consumption | +12V: 0.96A (CPU: J1900 2.0GHz) |
| Dimensions | 170 x 170 mm (6.69" x 6.69") |
| Certifications | CE / FCC |
| O.S. Support | Windows 10 64bit / Windows 8.1 / Windows 7 |

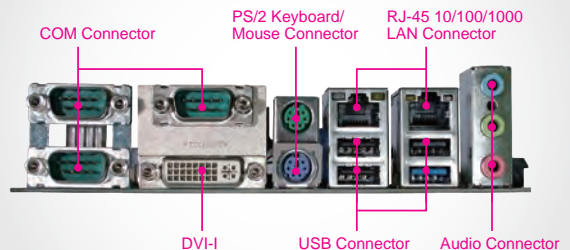
Graphics

| | |
|------|--|
| DVI | 1 x DVI-I (rear I/O), resolution: up to 2560 x 1600 @60Hz Supports VGA mode |
| LVDS | 1 x LVDS (internal wafer), up to dual channel 18/24 bit Resolution range: 800 x 600~1920 x 1200 |

Environment

| | |
|-----------------|--|
| Operating Temp. | -40°C~-85°C (-40°F~-185°F) for E3815/E3827 SKU 0°C~60°C (32°F~140°F) for Celeron® SKU |
| Storage Temp. | -40°C~-85°C (-40°F~-185°F) |
| Humidity | Operation humidity 20%~90%, storage humidity 20%~95% |

I/O Panel View



I/O Ports

| | |
|----------------|--|
| SATA Interface | 2 x SATA II (3.0Gb/s) |
| Expansion Bus | 1 x PCIe (x1) 1 x half-sized mPCIe |
| LPC | 1 x LPC pin-header (for optional TPM module) |
| Serial Ports | 4 x ports COM 1/2/3: RS-232, D-sub connector (rear I/O) COM 4: RS-232, box header on board COM 3/4 supports RI/5V/12V selected by jumper (BM-0962Rx-00P/W7P/30P SKU has COM 5/6 wafer with TTL level, supporting additional RS-232/422/485 via optional daughter board) |
| Keyboard/Mouse | 2 x PS/2 (rear I/O) |
| FAN | 1 x 4 pin connector for CPU fan, 1 x 4 pin connector for system fan |
| LAN | Dual LAN (2 x RJ45 on rear I/O) Supports Wake-On-LAN Controller: 2 x Intel® I210(GbE) (E3815/N2807 SKU supports only single LAN) |
| Audio | Mic In / Line In / Line Out (rear I/O) |
| USB | 6 ports 3 x USB 2.0 (rear I/O) 1 x USB 3.0 (rear I/O) 2 x USB 2.0 (internal wafer) (E3815/N2807 SKU supports only 3 x USB 2.0, 1 x USB 3.0 on rear I/O) |
| Digital I/O | 4 in / 4 out (internal wafer) |

* All information contained in this document is subject to change without prior notice. Please log on www.protech.com.tw to acquire latest information. For detail mechanics drawing, please contact our sales.