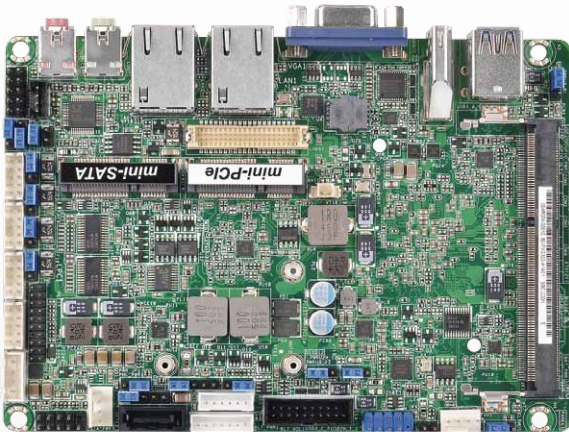


SBC-220

3.5" SBC Motherboard

Spotlight Features

- Intel® Pentium/Celeron Braswell SoC Processor
-SBC-220 (N3160)
- Integrated Intel® Gen8 Intel® Graphics DX 11, OGL3.2
- Supports Single Channel DDR3L 1333/1600MHz, 1 x SO-DIMM, up to 8GB system memory
- 1 x HDMI, 1 x D-Sub, 1 x Dual Channel 24-bit LVDS/eDP
- 4 xUSB 3.0, 2 x USB 2.0, 1 x SATA3
- 1 x mini-PCIe, 1 x mSATA
- Gigabit LAN : 2 x Intel® Lan
- 1 x TPM Header
- 12~24 V DC-in



Specifications

| Processor System | |
|------------------------|---|
| Dimension | 3.5" SBC (5.8-in x 4.0-in) / (146 x 102 mm) |
| CPU | Intel® Pentium/Celeron Braswell SoC Supports Hyper-Threading Technology Default N3160 Quad core 6W processor |
| Core Number | (By CPU, Max 4) |
| Max Speed | (By CPU) |
| L3 Cache | (By CPU) |
| Chipset | (By CPU) |
| BIOS | UEFI |
| Expansion Slot | |
| PCIe | 0 |
| Mini PCIe | 1x Full/half size mini-PCIe slot |
| M.2 | 0 |
| mSATA | 1 |
| Memory | |
| Technology | Single Channel DDR3L 1333/1600 MHz SDRAM |
| Max. | 8GB |
| Socket | 1 x SO-DIMM |
| Graphics | |
| Controller | Intel® Gen8 Intel® Graphics DX 11, OGL3.2 |
| VRAM | Shared Memory |
| VGA | Supports max resolution up to 1920 x 1200 |
| LVDS | Supports Dual channel 24-bit co-lay with eDP, max resolution up to 1920x1200@60Hz |
| HDMI | Supports max resolution up to 1920 x 1200 |
| DVI | No |
| DisplayPort | No |
| Multi Display | Yes (Triple Display) |
| Ethernet | |
| Interface | 10/100/1000 Mbps |
| Controller | 2 x Intel® I210 |
| Connector | 2 x RJ45 |
| SATA | |
| Max Data Transfer Rate | SATA3 (6.0Gb/s) |
| Rear I/O | |
| VGA | 1 |
| DVI | 0 |
| HDMI | 1 |
| DisplayPort | 0 |
| Ethernet | 2 |
| USB | 4 x USB 3.0 |
| Audio | 2 (Mic-in, Line-out) |
| Serial | 0 |
| PS/2 | 0 |
| Internal Connector | |
| USB | 4 (2 x 2.54 pitch header USB 2.0 compliant) |
| LVDS/inverter | 1/1 |
| VGA | 0 |
| Serial | 4 x 2.0 pitch header RS-232 (COM1 support RS-232/RS-422/485) |
| SATA | 1 x SATA3 (6.0Gb/s) |
| mPCIe | 1 |
| Parallel | 0 (Co-lay with 4in/4out DIO) |
| mSATA | 1 |
| IrDA | 0 |
| GPIO | 4 x GPI + 4 x GPO |
| SATA PWR Output Con | 1 |
| Speaker Header | 1 |
| Watchdog Timer | |
| Output | From Super I/O to drag RESETCON# |
| Interval | 256 segments, 0,1,2...255sec/min |
| Power Requirements | |
| Input PWR | 12 / 19~24 VDC |
| Power On | AT/ATX Supported AT : Directly PWR on as power input ready ATX : Press button to PWR on after power input ready |
| Environment | |
| Operating Temperature | 0°C – 60°C |