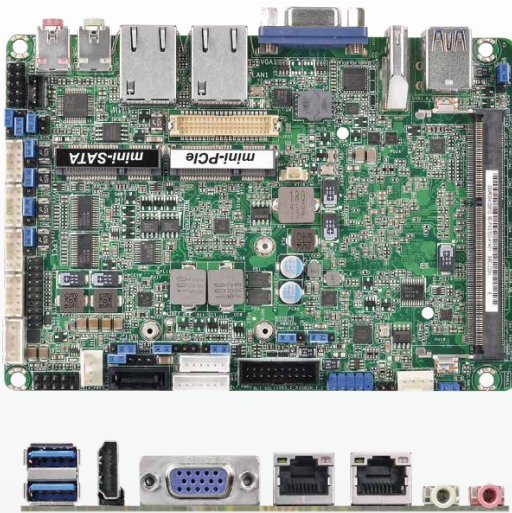




# SBC-220

3.5" SBC Motherboard

## Spotlight Features

- Intel® Braswell SoC Processor
  - SBC-220A (N3710)
  - SBC-220B (N3160)
- Supports Single Channel DDR3L SO-DIMM 1333/1600MHz, up to 8GB
- 1 x HDMI, 1 x D-Sub, 1 x LVDS/eDP
- 2 x USB 3.0, 2 x USB 2.0, 1 x SATA3
- 1 x mini-PCIe, 1 x mSATA
- 2 x Intel® Lan
- 1 x TPM Header
- +12V ~ +24V DC-in

## Specifications

### Processor System

|            |                                         |
|------------|-----------------------------------------|
| Dimensions | 3.5" SBC (5.8-in x 4.0-in)              |
| CPU        | -SBC-220A (N3710)<br>- SBC-220B (N3160) |
| Chipset    | SOC                                     |

### Expansion Slot

|           |                                           |
|-----------|-------------------------------------------|
| PCIe      | N/A                                       |
| Mini-PCIe | 1xhalf/full (supports PCIe1 & USB device) |
| M.2       | N/A                                       |
| mSATA     | 1xfull (supports SATA3 & USB device)      |

### Memory

|            |                                    |
|------------|------------------------------------|
| Technology | Single Channel DDR3L 1333/1600 MHz |
| Max.       | 8GB                                |
| Socket     | 1 x SO-DIMM                        |

### Graphics

|               |                                                |
|---------------|------------------------------------------------|
| Controller    | Intel® Gen8 Intel® Graphics DX 11, OGL3.2      |
| VGA           | Supports max resolution up to 1920 x 1200      |
| LVDS          | Supports max resolution up to 1920 x 1200@60Hz |
| eDP           | N/A                                            |
| HDMI          | Supports max resolution up to 1920 x 1200      |
| DVI           | N/A                                            |
| DisplayPort   | N/A                                            |
| Multi Display | Triple Display                                 |

### Ethernet

|            |                  |
|------------|------------------|
| Interface  | 10/100/1000 Mbps |
| Controller | 2 x Intel® I210  |

### Rear I/O

|             |                      |
|-------------|----------------------|
| VGA         | 1                    |
| DVI         | N/A                  |
| HDMI        | 1                    |
| DisplayPort | N/A                  |
| Ethernet    | 2                    |
| USB         | 2 x USB 3.0          |
| Audio       | 2 (Mic-in, Line-out) |
| Serial      | N/A                  |
| PS/2        | N/A                  |

### Internal Connector

|                     |                                            |
|---------------------|--------------------------------------------|
| USB                 | 2 x USB 2.0, 2 x USB 3.0                   |
| LVDS                | 1                                          |
| eDP                 | 1                                          |
| VGA                 | N/A                                        |
| Serial              | 3 x COM (RS-232), 1 x COM (RS-232/422/485) |
| SATA                | 1 x SATA3                                  |
| Parallel            | N/A                                        |
| GPIO                | 4 x GPI + 4 x GPO                          |
| SATA PWR Output Con | 1                                          |
| Speaker Header      | 1                                          |
| TPM                 | 1 x Header                                 |

### Watchdog Timer

|          |                                  |
|----------|----------------------------------|
| Output   | From Super I/O to drag RESETCON# |
| Interval | 256 segments, 0,1,2...255sec/min |

### Power Requirements

|           |                                                                                                                       |
|-----------|-----------------------------------------------------------------------------------------------------------------------|
| Input PWR | +12V ~ +24V DC-in                                                                                                     |
| Power On  | AT/ATX Supported<br>AT : Directly PWR on as power input ready<br>ATX : Press button to PWR on after power input ready |

### Environment

|                       |              |
|-----------------------|--------------|
| Operating Temperature | 0°C – 60°C   |
| Storage Temperature   | -40°C – 85°C |

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