

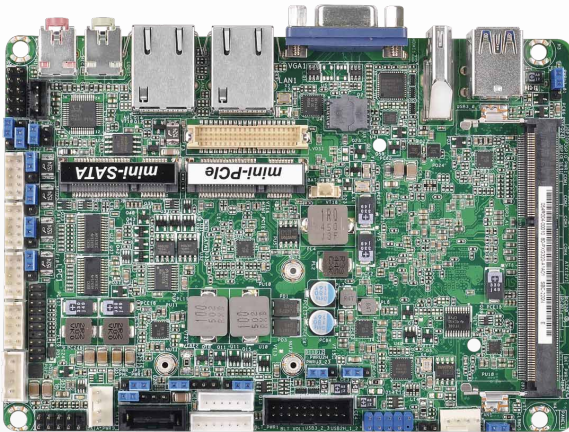
Preliminary

# SBC-220

## 3.5" SBC Motherboard

### Spotlight Features

- Intel® Pentium/Celeron Braswell SoC Processor
- 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 x USB 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 N3150 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	
PCI	0
Mini-PCIe	1x Full/half size mini-PCIe slot
mSATA	1
SIM	

Memory	
Technology	Single Channel DDR3L 1333/1600 MHz SDRAM
Max.	8G
Socket	1 x SO-DIMM

Graphics	
Controller	Intel® Gen8 Intel Graphics DX 11*, OGL3.2
VRAM	Shared Memory
VGA	Supports max. resolution 1920 x 1200
LVDS	Dual channel 24-bit co-lay with eDP, max resolution 1920x1200@60Hz
HDMI	Supports HDMI 1.4a, max resolution 1920x1200
DVI	No
Display Port	No
Multi Display	Yes (Triple Display)

Ethernet	
Interface	10/100/1000 Mbps
Controller	2 x Intel i210
Connector	2 x RJ-45

SATA	
Max Data Transfer Rate	SATA3 (6.0Gb/s)

Rear I/O	
VGA	1
HDMI	1
DVI-I/D	0
Display Port	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*2.54 pitch header USB 2.0 compliant)
LVDS/Inverter	1/1
VGA	0
Serial	4* 2.0 pitch header RS-232 (COM1 support RS-232/RS-422/485)
SATA	1 x SATA3 (6.0Gb/s)
m-SATA	1
Mini-PCIe	1
Parallel	0 (Co-lay with 4in/4out DIO)
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	12-24V DC-In (4-pin ATX PWR Con)
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