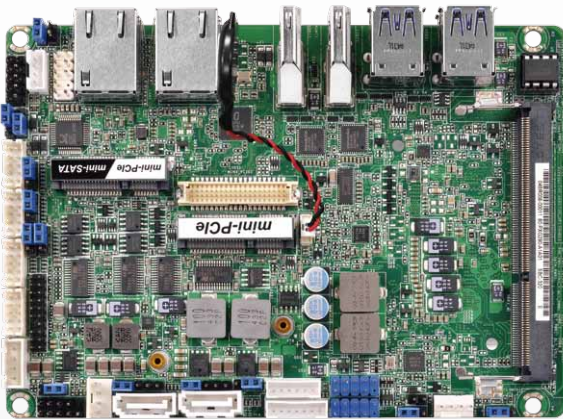


SBC-310/311

3.5" SBC Motherboard

Spotlight Features

- BGA Haswell MCP for Intel Core i5/i3/Celeron (Haswell ULT)
- Integrated Intel® HD Graphics Built-in Visuals
- Supports DDR3L 1333/1600MHz, 1 x SO-DIMM, up to 8GB system memory
- 2 x HDMI, 1 x 24 bit Dual Channel LVDS co-lay with eDP
- 4 x USB 3.0, 4 x USB 2.0, 2 x SATA3
- 1 x mini-PCIe, 1x mSATA,
- Gigabit LAN : 1 x RTL8111G x 1, 1 x Intel I218LM(4300U SKU)
- Gigabit LAN : 1 x RTL8111G x 1, 1 x Intel I218V(4010U/2980U SKU)
- 1 x TPM Header



Specifications

Processor System	
Dimension	3.5" SBC (5.8-in x 4.0-in) / (146 x 102 mm)
CPU	BGA Type for Intel Core i5-4300U/Core i3-4010U/Celeron 2980U mobile processor (Haswell ULT MCP)
Core Number	(By CPU, Max 4)
Max Speed	(By CPU)
L2 Cache	(By CPU)
Chipset	(By CPU)
BIOS	UEFI
Expansion Slot	
PCI	0
Mini-PCIe	1 (Half Size) + 1 (Full Size) shared with mSATA
mSATA	1 (Full Size) shared with SATA2
PCIe	0
CFast Card Socket	0
Memory	
Technology	Single Channel DDR3L 1333/1600 MHz SDRAM
Max.	8GB
Socket	1 x SO-DIMM
Graphics	
Controller	Intel HD Graphics (By CPU)
VRAM	Shared Memory
VGA	0
LVDS	1 co-lay with eDP
HDMI	Supports HDMI 1.4a, supported with Level Shift, resolution up to 4096x2304 (1x HDMI)
DVI	0
Display Port	0
Multi Display	Yes(Three Display)
Ethernet	
Interface	10/100/1000 Mbps
Controller	GbE LAN1:RTL8111G , LAN2: Intel I218LM (4300U SKU) GbE LAN1:RTL8111G , LAN2: Intel I218V (4010U/2980U SKU)
Connector	2 x RJ 45
SATA	
Max Data Transfer Rate	SATA3 (6.0Gb/S)

Rear I/O	
VGA	0
HDMI	2
DVI-I/D	0
Display Port	0
Ethernet	2
USB	4 x USB 3.0
Audio	0
Serial	0
e-SATA	0
PS/2	0
Internal Connector	
USB	4 (2 x USB Header 2.54mm pitch)
LVDS/Inverter	24 bit dual channel LVDS co-lay with eDP
VGA	0
Serial	4 (2 RS-232/422/485, 2 RS-232)
SATA	2 x SATA3 (6.0Gb/s)
m-SATA	1(shared)
Mini-PCIe	1
Parallel	0
IrDA	0
GPIO	4 x GPI + 4 x GPO
SATA PWR Output Con	1
Speaker Header	1

Watchdog Timer	
Output	Output from super I/O to drag RESETCON#
Interval	256 Segments, 0,1,2...255 Sec/Min

Power Requirements	
Input PWR	DC 9-36 input
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