

SBC-310

3.5" SBC Motherboard

Spotlight Features

- BGA Haswell MCP for Intel Core i5/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(2890U 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 i5-4300/Celeron 2980U mobile processor (Haswell ULT MCP) Default 2980U Dual core 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 (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