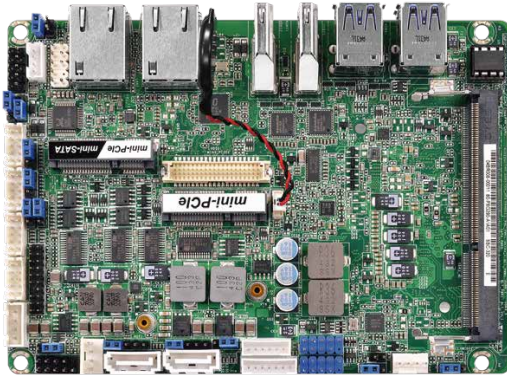




SBC-310/ SBC-311

3.5" SBC Motherboard



KEY FEATURES

- Intel® 4th Gen (Haswell-U) Core™ Processors
- 1 x 204-pin SO-DIMM up to 8GB DDR3L 1333/1600 MHz
- 4 x USB 3.1 Gen1, 4 x USB 2.0, 1 x mini-PCIe, 1 x mSATA/mini-PCIe, 4 x COM, 2 x SATA3
- 1 x Intel 1 Gigabit LAN, 1 x Realtek 1 Gigabit LAN
- Supports triple display, 2 x HDMI 1.4a, 1 x LVDS
- TPM Header
- 9~36V DC-In

SPECIFICATIONS

Form Factor	SBC-310	SBC-311
Dimensions	3.5" SBC (5.8-in x 4.0-in)	
Processor System		
CPU	Intel® 4 th Gen (Haswell-U) Core™ Processors	
	- SBC-310P (i7-4650U, QC, 1.70 GHz, 15W)	- SBC-311V (i3-4010U, QC, 1.70 GHz, 15W)
	- SBC-310M (i5-4300U, QC, 1.90 GHz, 15W)	
Chipset	MCP	
Socket	N/A	
BIOS	AMI SPI 64 Mbit	

Memory	
Technology	Single Channel DDR3L 1333/1600MHz
Capacity	8 GB
Socket	1 x 204-pin SO-DIMM

Graphics	
Controller	Intel® Gen9 Graphics DX 11
HDMI	HDMI 1.4a Max resolution up to 4096x2304@60Hz
DisplayPort	N/A
VGA	N/A
LVDS	Dual channel 24 bit up to 1920x1200@60Hz
eDP	N/A
DVI	N/A
MultiDisplay	Triple Display

Expansion Slot	
PCIe	N/A
PCI	N/A
mini-PCIe	1 x Full size with PCIe x1 and USB 2.0
mSATA/mini-PCIe	1 x Full size with SATA3 and USB 2.0
M.2	N/A
SIM Socket	N/A

Audio	
Interface	N/A

Ethernet	
Controller/ Speed	SBC-310P/310M LAN1: 1 x Realtek RTL8111G with 10/100/1000 Mbps LAN2: 1 x Intel® I28LM with 10/100/1000 Mbps SBC-311V LAN1: 1 x Realtek RTL8111G with 10/100/1000 Mbps LAN2: 1 x Intel® I218V with 10/100/1000 Mbps
Connector	2 x RJ-45

Rear I/O	
HDMI	2 x HDMI 1.4a
DisplayPort	N/A
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.1 Gen1
Audio	N/A
COM	N/A
PS2	N/A

Internal Connector	
USB	4 x USB 2.0 (2x 2.54 pitch header)
COM	2 x COM (RS-232/422/485), 2 x COM (RS-232)
Parallel	N/A
GPIO	4 x GPI, 4 x GPO
TPM	TPM Header
LVDS	1
eDP	N/A
VGA	N/A
SATA PWR Output	1
Speaker Header	1

Storage	
M.2	N/A
mSATA	1 x Half size with PCIe x1, SATA3 and USB 2.0 colay with mini-PCIe
SATA	2 x SATA3 (6Gb/s)
eMMC	N/A

Watchdog Timer	
Output	From Super I/O to drag RESETCON#
Interval	256 Segments, 0, 1, 2, ..., 255sec

Power Requirements	
Input PWR	9~36V (DC In)
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 Temp	0°C ~ 60°C
Storage Temp	-40° C ~ 85° C
Operating Humidity	5% ~ 90%
Storage Humidity	5% ~ 90%

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

Assured Systems

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