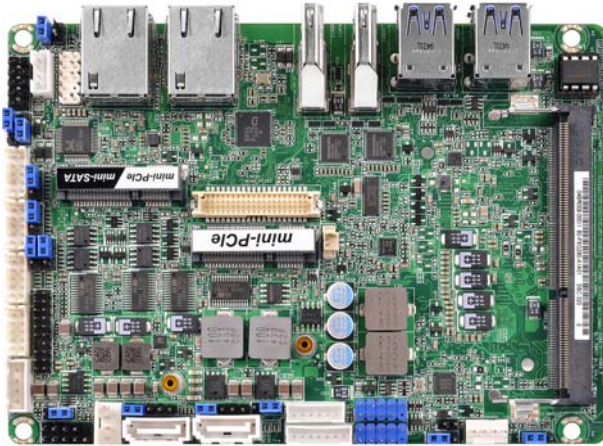


SBC-310

Intel 4th Haswell ULT Core i7/i5/i3 CPU
3.5" Industrial SBC with 2HDMI, LVDS
2LAN, 4COM, 4USB3/4USB2, 2SATA3, DC-IN



Features

- Onboard Intel Dual Core i7-4650U 1.7GHz CPU, up to 3.3GHz
- Onboard Intel Dual Core i5-4300U 1.9GHz CPU, up to 2.9GHz
- Onboard Intel Dual Core i3-4010U 1.7GHz CPU
- One SODIMM DDR3L 1333/1600MHz DRAM up to 8GB
- Supports 1 x Mini-PCIe half-size and 1 x Mini-PCIe full-size
- Triple display by dual HDMI and LVDS
- Dual Gigabit LAN, 4 x USB 3.0, 4 x USB 2.0
- 2 x COM by RS-232/422/485 and 2 x COM by RS-232
- 2 x SATA3 (6.0Gb/s), 1 x SATA PW
- DC voltage 9V-36V by 4-Pin internal box wafer header
- 0°C ~ 60°C harsh operation environment

Specifications

	Model Name	SBC-310P	SBC-310M	SBC-310V
Processor System	CPU and Max Speed	i7-4650U up to 3.3GHz	i5-4300U up to 2.9GHz	i3-4010U 1.7GHz
	TDP Power	TDP 15W		
	Core Number & Cache	2 Cores, 4MB SM Cache	2 Cores, 3MB SM Cache	2 Core, 3MB SM Cache
	BIOS	AMI UEFI		
Expansion Slot	Mini-PCIe	1 x half-size Mini-PCIe		
	Mini-PCIe/mSATA	1 x full-size Mini-PCIe(shared with mSATA)		
Memory	Specification	One Channel DDR3L 1333/1600 MHz		
	Max. Capacity	1 x SO-DIMM, up to 8 GB		
Graphics	HDMI 1	Supports HDMI 1.4a, max. resolution 4096 x 2304		
	HDMI 2	Supports HDMI 1.4a, max. resolution 4096 x 2304		
	LVDS	1x dual-channel 24-bit LVDS, max resolution 1920 x 1200@60Hz		
Ethernet	Interface Controller	1x RTL8111G, 1 x Intel I218LM		1xRTL8111G, 1xIntel I218V
	Connector	2 x RJ-45		
SATA	Max Data Transfer Rate	6.0Gb /s		
	SATA3	2 x SATA3		
Rear I/O	HDMI1	1 x HDMI		
	HDMI2	1 x HDMI		
	Ethernet	2 x RJ45		
	USB	4 x USB 3.0 Type-A		
Internal Connector	LVDS	1 x 40-pin LVDS connector for dual-channel 24-bit LVDS		
	Inverter	1 x 2.0 6-pin box wafer for inverter power control		
	Backlight & Amp Volume	1 x 2.0 7-pin box wafer connector for backlight and Amp volume control		
	USB	2 x 2x5-pin 2.54 pin header for 4 x USB 2.0		
	Serial	4 x 2x5-pin 2.0 box header(2 x RS-232/422/485, 2 x RS-232)		
	SATA/PWR	2 x 6Gb/s SATA3 connector, 1 x 4-pin for SATA PWR		
	Speaker Header	1 x 5x2-pin 2.54 pin-header		
	GPIO	1 x 5x2-pin 2.54 pin-header for 4 x GPI + 4 x GPO		
	TPM	1x TPM Header for		
	Speaker	1 x 5x2-pin 2.54 pin-header for speaker-out L/R		
	System Panel	1 x 5x2-pin 2.54 pin-header for power-on button, reset, power-on LED, HDD LED		
	CPU/System Fan	1 x 4-pin CPU fan connector, 1 x 4-pin system fan connector		
DC Input	1 x 4-pin box header			
Watchdog Timer	Output and Interval	System reset, programmable 1 ~ 255 sec/min; 1 sec. or 1min. /step		
Power Requirement	Typical	15W		
	Environment	Operating	Storage	
	Temperature	0 ~ 60°C (32 ~ 140°F)		-40 ~ 85°C (-40 ~ 185°F)
Physical Size	Dimensions	148mm x 102mm (6.69" x 6.69")		
Packing for shipment	SBC with CPU heatsink	Gift Box: QTY=20, 59.0x26.0x32CM,		N.W. = 8Kg, G.W. = 12.4Kg
	SBC only w/o heatsink	Bulk Pack: QTY=20, 41.5x30.5x20 CM,		N.W. = 3Kg, G.W. = 4.2Kg