



# SBC-330/ SBC-331

## 3.5" SBC Motherboard



### KEY FEATURES

- Intel® 7<sup>th</sup>/ 6<sup>th</sup> Gen (KabyLake-S/Skylake-S) Core™ Processors
- 2 x 260-pin SO-DIMM up to 32GB DDR4 2133 MHz (16GB per DIMM)
- 4 x USB 3.1 Gen2, 4 x USB 2.0, 1 x Mini-PCIe, 1 x Mini-PCIe/mSATA, 4 x COM, 2 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports triple display, 2 x DP 1.2, 1 x LVDS
- TPM Header
- 12~36V DC-In

### SPECIFICATIONS

Form Factor	SBC-330	SBC-331
Dimensions	3.5" SBC (5.8-in x 4.0-in)	
<b>Processor System</b>		
CPU	Intel® 7 <sup>th</sup> / 6 <sup>th</sup> Gen (KabyLake-S/Skylake-S) Core™ Processors	
	- SBC-330P (i7-6600U, QC, 2.60GHz, 15W)	- SBC-331V (i3-6100U, QC, 2.30GHz, 15W)
	- SBC-330M (i5-6300U, QC, 2.40GHz, 15W)	
Chipset	SoC	
Socket	N/A	
BIOS	AMI SPI 128 Mbit	

Memory	
Technology	Dual Channel DDR4 2133 MHz
Capacity	32 GB (16 GB per DIMM)
Socket	2 x 260-pin SO-DIMM

Graphics	
Controller	Intel® Gen9 Graphics DX 12
HDMI	N/A
DisplayPort	DisplayPort 1.2 Max resolution up to 4096x2160@60Hz
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	Realtek ALC887, High Definition Audio. Line-out, Mic-in

Ethernet	
Controller/ Speed	SBC-330P/330M LAN1: 1 x Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro LAN2: 1 x Intel® I211AT with 10/100/1000 Mbps SBC-331V LAN1: 1 x Intel® I219V with 10/100/1000 Mbps LAN2: 1 x Intel® I211AT with 10/100/1000 Mbps
Connector	2 x RJ-45

Rear I/O	
HDMI	N/A
DisplayPort	2 x DP1.2
VGA	N/A
DVI	N/A
Ethernet	2 x 1 Gigabit LAN
USB	4 x USB 3.1 (Gen2)
Audio	N/A
COM	N/A
PS2	N/A

Internal Connector	
USB	4 x USB 2.0 (2 x 2.54 pitch header)
COM	1 x COM (RS-232/422/485), 3 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	N/A

Storage	
M.2	N/A
mSATA	1 x half size with 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	12~36V (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%