



# SBC-350

3.5" SBC Motherboard



## KEY FEATURES

- Intel® 8<sup>th</sup> Gen (Whiskey lake-U) Core™ Processors
- 2 x 260-pin SO-DIMM up to 32GB DDR4 2400 MHz (16GB per DIMM)
- 4 x USB 3.2 Gen2, 2 x USB 3.2 Gen1, 2 x USB 2.0, 2 x M.2 Key M, 1 x M.2 Key E, 4 x COM, 1 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports triple display, 2 x DP1.2 ++, 1 x LVDS
- TPM 2.0 onboard IC (SBC-350P/SBC-350M)
- TPM 2.0 with Bios setting (SBC-350V/SBC-350E)
- Supports Intel® SATA RAID 0/1
- 9~36V DC-In

## SPECIFICATIONS

### Form Factor

Dimensions	3.5" SBC (6.3-in x 4.0-in)
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### Processor System

CPU	Intel® 8 <sup>th</sup> Gen (Whiskey lake-U) Core™ Processors SBC-350P (i7-8665UE, QC, 1.7 GHz, 15 W) SBC-350M (i5-8365UE, QC, 1.6GHz, 15W) SBC-350V (i3-8145UE, DC, 2.2GHz, 15W) SBC-350E (CELERON-4305UE, DC, 2.0GHz, 15W)
Chipset	MCP
Socket	N/A
BIOS	AMI SPI 128 Mbit

### Memory

Technology	Dual Channel DDR4 2400 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, DP++ 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	N/A
M.2	1 x Key E (2230) with PCIe x1, CNVI and USB 2.0 for Wireless

### Audio

Interface	Realtek ALC887/897, High Definition Audio. Line-out, Mic-in
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### Ethernet

Controller/ Speed	SBC-350P/M LAN1: 1 x Intel® I219LM with 10/100/1000 Mbps, supports AMT/vPro LAN2: 1 x Intel® I210AT with 10/100/1000 Mbps SBC-350V/SBC-350E LAN1: 1 x Intel® I219V with 10/100/1000 Mbps LAN2: 1 x Intel® I210AT 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 3.2 (Gen2)
Audio	N/A
COM	N/A
PS2	N/A

### Internal Connector

USB	2 x USB 3.2 Gen1 (1 x USB 3.2 Gen1 header) 2 x USB 2.0 (1 x 2.54 pitch header)
COM	1 x COM (RS232/422/485), 3 x COM (RS232)
Parallel	N/A
GPIO	4 x GPI, 4 x GPO
TPM	TPM 2.0 onboard IC (SBC-350P/SBC-350M) TPM 2.0 with Bios setting (SBC-350V/SBC-350E)
LVDS	1
eDP	N/A
VGA	N/A
Audio	2 (Mic-in, Line-out)
SATA PWR Output	1
Speaker Header	1

### Storage

M.2	1 x Key M (2242/2280) with PCIe x4 and SATA3 for SSD 1 x Key M (2242) with SATA3 for SSD
mSATA	N/A
RAID	Supports Intel® SATA RAID 0/1 * 7pin SATA signal via M2X4-SATA-4P with M2M_2 slot
SATA	1 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 (DC Jack)
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%

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