



SBC-350

3.5" SBC Motherboard



KEY FEATURES

- Intel® 8th 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) |
|------------|----------------------------|

Processor System

| | |
|---------|---|
| CPU | Intel® 8 th 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

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|------------|----------------------------|
| 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 |
|-----------|---|

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

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|-----------|---|
| 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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