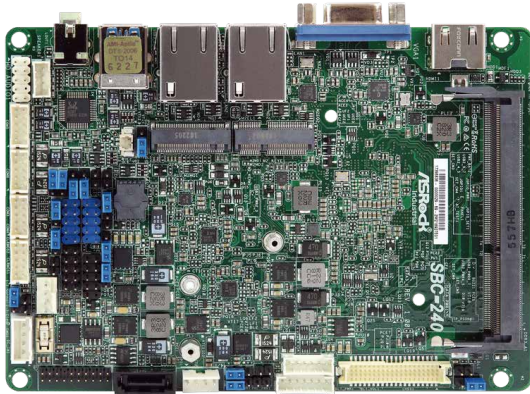




SBC-240

3.5" SBC Motherboard



KEY FEATURES

- Intel® Apollo Lake/Apollo Lake-I SoC Processors
- 1 x 204-pin SO-DIMM up to 16 GB DDR3L 1866 MHz
- 2 x USB 3.1 Gen1, 4 x USB 2.0, 1 x M.2 Key M, 1 x M.2 Key E, 4 x COM, 1 x SATA3
- 2 x Realtek 1 Gigabit LAN
- Supports triple display, 1 x HDMI 1.4b, 1 x VGA, 1 x LVDS
- TPM Header
- 12V DC-In

SPECIFICATIONS

Form Factor

| | |
|------------|----------------------------|
| Dimensions | 3.5" SBC (5.8-in x 4.0-in) |
|------------|----------------------------|

Processor System

| | |
|---------|--|
| CPU | Intel® Apollo Lake/Apollo Lake-I SoC Processors - SBC-240L (N3350, DC, 1.10 GHz, 6W) - SBC-240J (J3455, QC, 1.50 GHz, 10W) |
| Chipset | SoC |
| Socket | N/A |
| BIOS | AMI SPI 128 Mbit |

Memory

| | |
|------------|-----------------------------|
| Technology | Dual Channel DDR3L 1866 MHz |
| Capacity | 16 GB |
| Socket | 1 x 204-pin SO-DIMM |

Graphics

| | |
|--------------|--|
| Controller | Intel® Gen9 Graphics DX 12 |
| HDMI | HDMI 1.4b Max resolution up to 4096x2160@24Hz |
| DisplayPort | N/A |
| VGA | Max resolution up to 1920x1200@60Hz |
| 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 |
| mSATA/mini-PCIe | N/A |
| M.2 | 1 x M.2 (Key E, 2230) with PCIe x1 and shared USB 2.0 for Wireless |
| SIM Socket | N/A |

Audio

| | |
|-----------|---|
| Interface | Realtek ALC887, High Definition Audio. Line-out |
|-----------|---|

Ethernet

| | |
|-------------------|--|
| Controller/ Speed | 2 x Realtek RTL8111G/RTL8111H-CG with 10/100/1000 Mbps |
| Connector | 2 x RJ-45 |

Rear I/O

| | |
|-------------|-------------------|
| HDMI | 1 x HDMI 1.4b |
| DisplayPort | N/A |
| VGA | 1 |
| DVI | N/A |
| Ethernet | 2 x 1 Gigabit LAN |
| USB | 2 x USB 3.1 Gen1 |
| Audio | 1 (Line-out) |
| COM | N/A |
| PS2 | N/A |

Internal Connector

| | |
|-----------------|--|
| USB | 4 x USB 2.0 (2x 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 | 1 |

Storage

| | |
|-------|---|
| M.2 | 1 x M.2 (Key M, 2242/2260) with PCIe x1 and SATA3 for SSD |
| mSATA | N/A |
| 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 | 12V (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% |

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