

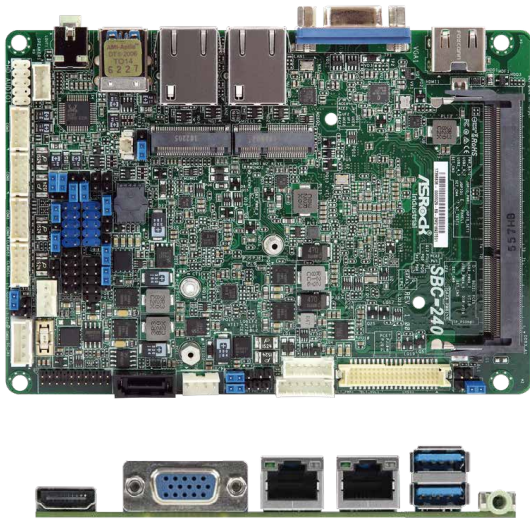


ASRock
— Industrial —

intel IoT Solutions
Alliance

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)
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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
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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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