

# SOM-P102

## Spotlight Features

- Intel® Apollo Lake SoC Processor  
-SOM-P102D (N4200)  
-SOM-P102L (N3350)
- Supports Single Channel DDR3L SO-DIMM 1867, up to 8GB
- 1 x HDMI
- 1 x USB 3.0 compatible with USB 2.0 , 1 x SATA3
- 1 x Mini PCIe and mSATA combo
- 1 x M.2(Key E)
- 1 x Intel LAN
- 1 x TPM IC onboard
- 12V DC-in



## Specifications

### Processor System

Dimensions	PICO-ITX (3.9-in x 2.8-in)
CPU	-SOM-P102D (N4200, QC, 1.10 GHz, 6W) -SOM-P102L (N3350, DC, 1.10 GHz, 6W)
Chipset	(By CPU)

### Expansion Slot

PCIe	N/A
mSATA/Mini PCIe	1x full size with SATA3 and USB 2.0
M.2	1 x M.2 Slot (Key E), supports type 2230 for WiFi + BT Module

### Memory

Technology	DDR3L 1333/1600/1867 MHz
Max.	8GB
Socket	1 x SO-DIMM

### Graphics

Controller	Intel® Gen9 Graphics DX 11/12, OGL4.3/4.4
VGA	N/A
LVDS	Supports max resolution up to 1920 x 1200@60Hz
eDP	N/A
HDMI	Supports max resolution up to 4096 x 2160@30Hz
DVI	N/A
DisplayPort	N/A
Multi Display	Dual Display

### Ethernet

Interface	10/100/1000 Mbps
Controller	1 x Intel I210-AT

### Environment

Operating Temperature	0°C – 60°C
Storage Temperature	-40°C – 85°C

### Rear I/O

VGA	N/A
DVI	N/A
HDMI	1
DisplayPort	N/A
Ethernet	1
USB	1 x USB 3.0 compatible with USB 2.0
Audio Jack	N/A
Serial	N/A
PS/2	N/A

### Internal Connector

USB	2 x USB 2.0 (1 x 2.00 pitch header)
LVDS	1
eDP	N/A
VGA	N/A
Serial	1 x RS-232/422/485 , 1 x RS232
SATA	1
Parallel	1
GPIO	4GPI + 4GPO
SATA PWR Output Con	1
Speaker Header	1
TPM	1 x IC onboard

### Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 segments, 0,1,2...255sec/min

### 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