

SOM-P101/ SOM-P102

Key Features

- Intel® Apollo Lake SoC Processor
 - SOM-P101D / SOM-P102D (N4200)
 - SOM-P101L / SOM-P102L (N3350)
- Supports Single Channel DDR3L SO-DIMM 1867, up to 8GB
- 1 x HDMI
- 1 x USB 3.1 compatible with USB 2.0 , 1 x SATA3
- 1 x MIOe (SOM-P101)
- 1 x Mini PCIe / mSATA
- 1 x M.2 Key E
- 1 x Intel LAN
- 1 x TPM IC onboard
- 12V DC-in

SOM-P101

SOM-P102



Specifications

Processor System	SOM-P101	SOM-P102
Dimensions	PICO-ITX (3.9-in x 2.8-in)	
CPU	-SOM-P101D (N4200, QC, 1.10 GHz, 6W) -SOM-P101L (N3350, DC, 1.10 GHz, 6W)	
Chipset	SoC	

Expansion Slot		
MIOe	1	N/A
mSATA/Mini PCIe	1x full size with SATA3 and USB 2.0	
M.2	1 x M.2 (Key E, 2230) fwith PCIe x1 and Wifi	

Memory	
Technology	Single Channel DDR3L 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 I210IT

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

Rear I/O	SOM-P101	SOM-P102
VGA	N/A	
DVI	N/A	
HDMI	1	
DisplayPort	N/A	
Ethernet	1	
USB	1 x USB 3.1 compatible with USB 2.0	
Audio Jack	N/A	
Serial	N/A	
PS/2	N/A	

Internal Connector	
USB	2 x USB 2.0
LVDS	1
eDP	N/A
VGA	N/A
Serial	1 x COM (RS-232/422/485), 1 x COM (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

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