



# SOM-Q101

## QSeven Motherboard

### Spotlight Features

- Intel® Apollo Lake - I
- Supports LPDDR4 2400MHz, Single / Dual / Quad Channel, up to 8GB
- 1 x DDI channels, 1 x eDP channel, 1 x LVDS channel (BOM option)
- 2 x USB 3.0 SS, 8 x USB 2.0, 2 x SATA3, 2 x Com(RS-232 only)
- 4 x PCIe x1 ( 1 for Giga Lan)
- 1 x Intel LAN I210-IT

### Specifications

#### Processor System

Dimensions	Qseven (2.8-in x 2.8-in)
CPU	Intel® Apollo Lake - I
Chipset	N/A

#### Expansion Slot

PCIe	4 x PCIe x1 Lane
Mini-PCIe	N/A
M.2	N/A
mSATA	N/A

#### Memory

Technology	Single / Dual / Quad Channel LPDDR4 2400
Max	8GB
Socket	N/A

#### Graphics

Controller	Intel Gen9 Graphics DX 11/12, OGL4.3/4.4, Support 2 x DDI, 1 x eDP, 1 x LVDS (BOM option)
VGA	N/A
DVI	N/A
LVDS	N/A
HDMI	N/A
DisplayPort	N/A
Multi Display	Dual Display

#### Ethernet

Interface	10/100/1000 Mbps
Controller	1 x Intel LAN I210IT

#### Environment

Operating Temperature	-20°C to 75°C
Storage Temperature	-40°C ~ 85°C

#### Rear I/O

VGA	N/A
DVI	N/A
HDMI	N/A
DisplayPort	N/A
Ethernet	N/A
USB	N/A
Audio Jack	N/A
Serial	N/A
PS/2	N/A

#### Internal Connector

USB	2 x USB 3.0/ 8 x USB2.0
LVDS	N/A
eDP	N/A
VGA	N/A
Serial	2(RX/TX only)
SATA	2 x SATA3 (6.0 Gb/s)
Parallel	N/A
GPIO	4 x GPI + 4 x GPO
SATA PWR Output Con	N/A
Speaker Header	N/A
TPM	TPM 2.0 on board IC ( optional )
Onboard SSD	EMMC 32GB ( optional )
Others	LPC, SMBus, I2C, SPI, HD Audio
Super I/O	N/A

#### Watchdog Timer

Interval	0 ~ 255 sec
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#### Power Requirements

Input PWR	N/A
Power On	N/A