



## KEY FEATURES

- Intel® 4<sup>th</sup> Gen (Haswell) Core™ MCP Processors
- 2 x 204-pin SO-DIMM up to 8GB DDR3L 1600MHz (4GB per DIMM)
- 4 x USB 3.1 Gen1, 2 x USB 2.0, 1 x mini-PCIe/mSATA, 1 x mini-PCIe, 4 x COM, 1 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports dual display, 2 x HDMI 1.4a
- 1 x 19V/65W AC-DC power brick adapter
- 170 x 200 x 70mm, Fanless Barebone

## SPECIFICATIONS

### Processor System

|         |                                                           |
|---------|-----------------------------------------------------------|
| CPU     | Intel® 4 <sup>th</sup> Gen (Haswell) Core™ MCP Processors |
| Chipset | i5-4300U, QC, up to 2.90 GHz                              |
| Socket  | SoC                                                       |
| BIOS    | FCBGA1168                                                 |
|         | AMI SPI 64 Mbit                                           |

### Memory

|            |                             |
|------------|-----------------------------|
| Technology | Dual Channel DDR3L 1600 MHz |
| Capacity   | 8 GB (4 GB per DIMM)        |
| Socket     | 2 x 204-pin SO-DIMM         |

### Graphics

|              |                                                  |
|--------------|--------------------------------------------------|
| Controller   | Intel® HD Graphics 4400                          |
| HDMI         | HDMI 1.4a<br>Max resolution up to 4096x2304@24Hz |
| DisplayPort  | N/A                                              |
| VGA          | N/A                                              |
| LVDS         | N/A                                              |
| eDP          | N/A                                              |
| DVI          | N/A                                              |
| MultiDisplay | Dual Display                                     |

### Expansion Slot

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| mini-PCIe/ mSATA | 1 x Full size (Supports PCIe x1 and USB 2.0, shared with m-SATA) |
| mini-PCIe        | 1 x Full/ half size (Supports PCIe x1 and USB 2.0)               |
| M.2              | N/A                                                              |
| SIM Socket       | N/A                                                              |

### Audio

|           |     |
|-----------|-----|
| Interface | N/A |
|-----------|-----|

### Ethernet

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Controller/ Speed | LAN1: 1 x Realtek RTL8111G with 10/100/1000 Mbps<br>LAN2: 1 x Intel® I218LM with 10/100/1000 Mbps, supports AMT/vPro |
| Connector         | 2 x RJ-45                                                                                                            |

### Storage

|       |                                                 |
|-------|-------------------------------------------------|
| M.2   | N/A                                             |
| mSATA | 1 x Half size with USB 2.0 colay with mini-PCIe |
| SATA  | 1 x SATA3 (6Gb/s)                               |
| eMMC  | N/A                                             |

### Front I/O

|             |                                            |
|-------------|--------------------------------------------|
| HDMI        | N/A                                        |
| DisplayPort | N/A                                        |
| USB         | 2 x USB 2.0                                |
| COM         | 2 x COM (RS-232/422/485), 2 x COM (RS-232) |
| Audio       | N/A                                        |

### Rear I/O

|             |                    |
|-------------|--------------------|
| HDMI        | 2 x HDMI 1.4a      |
| DisplayPort | N/A                |
| VGA         | N/A                |
| DVI         | N/A                |
| Ethernet    | 2 x 1 Gigabit LAN  |
| USB         | 4 x USB 3.1 (Gen1) |
| Audio       | N/A                |
| COM         | N/A                |
| PS2         | N/A                |

### Watchdog Timer

|                 |                                  |
|-----------------|----------------------------------|
| Output Interval | From Super I/O to drag RESETCON# |
|                 | 256 Segments, 0, 1, 2, ...255sec |

### Power Requirements

|                    |                                                                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input PWR Power On | 1 x 19V/65W AC-DC power brick adapter<br>AT/ATX Supported<br>- AT : Directly PWR on as power input ready<br>- ATX : Press button to PWR on after power input ready |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Environment

|                    |                |
|--------------------|----------------|
| Operating Temp     | 0°C ~ 50°C     |
| Storage Temp       | -40° C ~ 85° C |
| Operating Humidity | 10% ~ 90%      |
| Storage Humidity   | 10% ~ 90%      |

### Mechanical

|                        |                       |
|------------------------|-----------------------|
| Construction           | Aluminum housing      |
| Mounting               | VESA mounting bracket |
| Dimensions (W x H x D) | 170 x 200 x 70mm      |
| Weight                 | Net Weight: 2.2 kg    |

### Others

|                |                                                                   |
|----------------|-------------------------------------------------------------------|
| OS Support     | Windows 7, Windows 10                                             |
| TPM            | N/A                                                               |
| Certifications | CE, FCC Class A                                                   |
| Packing List   | 1 x 19V/65W Power Adapter<br>1 x Screw Package<br>1 x Product DVD |