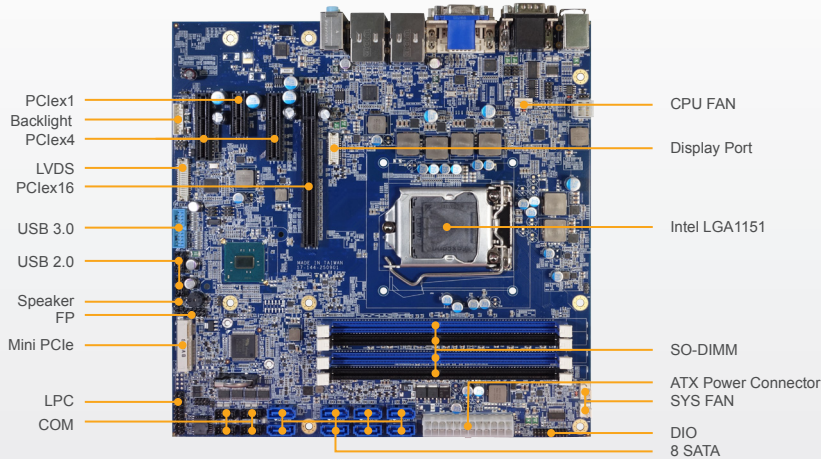


# BU-2509



Micro ATX Intel® 6th Gen. Core™ i7/i5/i3/ Pentium® Processor



## Features

- Intel® 6th Gen. Core™ i7/i5/i3 and Pentium® Processor LGA1151
- Memory support two DDR4 DIMM sockets; w/ECC & no-ECC)
- Support DVI and Display Port
- 3 independent Audio Streams
- Support Dual Gigabit LAN
- Support SATA III, RAID 0, 1, 5.
- Expansion Slots for one PCIe(16x)
- Support 6 Series ports

## Specifications

### System

|                   |                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU Support       | Intel® 6th Gen. Core™ i7/i5/i3 and Pentium® processor                                                                                                                        |
| CPU               | C236: E3-1275 v5, E3-1225 v5, E3-1268 v5, E3-1505M v5, E3-1505L v5<br>I3-6100TE<br>H110/Q170: i7-6700(TE), i5-6500(TE), i3-6100(TE),<br>Pentium G4400(TE), Celeron G3900(TE) |
| Chipset           | Intel® C236 / H110 / Q170                                                                                                                                                    |
| DRAM              | 4 x DDR4 DIMM 2133, support dual-channel, w/ ECC & no-ECC                                                                                                                    |
| BIOS              | AMI uEFI BIOS                                                                                                                                                                |
| Watchdog          | 1~255 sec Watchdog timer selectable                                                                                                                                          |
| Power Supply      | Support ATX 24+ 4 Power                                                                                                                                                      |
| Power Consumption | +5V:TBD; +12V:TBD; +3.3V:TBD; +5VSB:TBD<br>(CPU: Xeon E3 xxxx x.xGHz)                                                                                                        |
| Dimension         | 244mm x 244mm (9.6" x 9.6")                                                                                                                                                  |
| Certificate       | CE/ FCC                                                                                                                                                                      |
| OS Support        | Windows 10(64b), Windows 8.1Au(64b), Windows 7 Pro(32/64b)                                                                                                                   |

### I/O Ports

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| SATA Interface | 6 x SATA III (6.0Gb/s), 2 x SATA II, (Raid 0,1,5)                                                                                |
| Expansion BUS  | 1 x PCIe(16x) 2x PCIe(4x), 1x PCIe (1x), 1x mini-PCIe                                                                            |
| TPM            | 20pin header on board for TPM (Trusted Platform Module)                                                                          |
| Serial Port    | 6 x COM port,<br>COM 1~6 for RS-232, COM 2 for RS-232/422/485<br>COM3/4 support 5V/12V                                           |
| Parallel Port  | n/a                                                                                                                              |
| Keyboard/Mouse | PS/2 Connector, with mini DIN connector                                                                                          |
| FAN            | 1 x CPU FAN + 2 x System FAN                                                                                                     |
| LAN            | LAN 1: Intel® PHY 219 LM (10/100/1000 Mbps)<br>LAN 2: Intel® LAN 210 AT (10/100/1000 Mbps)<br>Support Wake-on-LAN with ATX power |
| Audio          | High Definition Audio; Realtek ALC888S with MIC / Line-In / Line-Out                                                             |
| DI/O           | 8 in/ 8 out                                                                                                                      |
| USB            | 4x USB 2.0 + 6 x USB 3.0                                                                                                         |

### Display

|          |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| Graphics | Built-in processor, share system memory<br>Support VGA, 1x DVI-D<br>2 x Display port |
|----------|--------------------------------------------------------------------------------------|

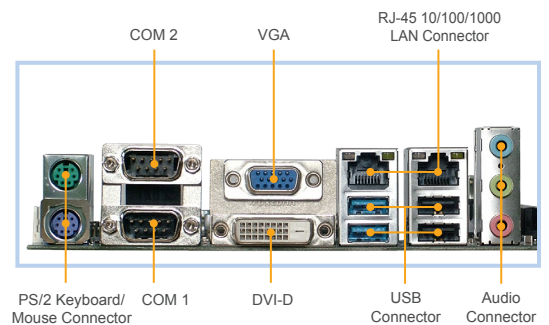
\*Discrete graphic card is necessary for display if the chosen CPU doesn't have integrated graphics support.

### Environment

|                 |                                             |
|-----------------|---------------------------------------------|
| Operation Temp. | 0° ~ 60° C ( 32° ~ 140° F )                 |
| Storage Temp.   | - 40° ~ 85° C ( - 40° ~ 185° F )            |
| Humidity        | Operation humidity 5 ~ 90% (non-condensing) |

\* All information contained in this document is subject to change without prior notice. Please log on [www.protech.com.tw](http://www.protech.com.tw) to acquire latest information. For detail mechanics drawing, please contact our sales.

## I/O Panel View



## Ordering Information

| Order No      | Description                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------|
| BU-2509RA-00P | Micro ATX MB with Intel® i7/i5/i3 Processor(LGA1151)+Q170, w/ VGA/ DVI-D/ DDR4/ 2LAN/ 6SATA/ 6COM         |
| BU-2509RA-11P | Micro ATX MB with Intel® i7/i5/i3 Processor(LGA1151)+H110, w/ VGA/ DVI-D/ DDR4/ 2LAN/ 4SATA/ 6COM         |
| BU-2509RA-06P | Micro ATX MB with Intel® Xeon E3/ i3 Processor(LGA1151)+C236, w/ VGA/ DVI-D/ DDR4(ECC)/ 2LAN/ 8SATA/ 6COM |

## Packing List

| Part No         | Description |
|-----------------|-------------|
| 80-010-07001357 | I/O Shield  |
| 27-008-00001031 | SATA cable  |
|                 | Quick Guide |
|                 | Driver CD   |

## Ordering Accessories

| Part No         | Description               |
|-----------------|---------------------------|
| 27-006-03306111 | Dual USB cable w/ bracket |
| 81-003-18025144 | CPU cooler (for 65W CPU)  |
| 21-008-01212002 | CPU cooler (for 95W CPU)  |
| 27-047-00006112 | pDP to DVI Cable L=300mm  |

| Order No      | Description                        |
|---------------|------------------------------------|
| BR-4010RA-01P | TPM Module (2.0/2.54mm)            |
| BR-8001RA-00P | pDP to DP Cable L=300mm w/ bracket |
| BR-8080RB-00P | DP/eDP to LVDS Daughter Board      |
| BR-6061RA-00P | 4 UART (RS232) Half Size Card      |
| BR-6061RA-03P | 4 UART (RS422/485) Half Size Card  |

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