

# SYS-1U1320-4A01

# SYS-1U1320-4S01

**1U Intel® Core™ 2 Quad ATX/  
PICMG 1.3 SBC System with  
Dual SATA/SAS HDD Trays**



## Features

- MB: Intel® Q35 platform
  - Supports Intel® Core™2 Quad processor up to 2.66 GHz
  - Supports dual channel DDR2 SDRAM up to 8 GB
- BP: Intel® Q35 platform
  - Supports Intel® Core™2 Quad processor update to 3.0 GHz
  - Supports dual channel DDR2 SDRAM up to 8 GB
- Expandability
  - Supports dual front-accessible SAS/SATA HDD
  - Supports up to 2 expansion slots in BP version, and 1 expansion slot via riser card in MB version
  - Efficient cooling desing prevents the system from over-heating

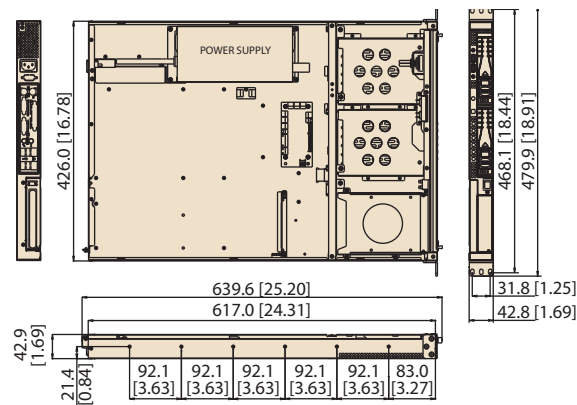
## Specifications

| Form Factor              |                         | SYS-1U1320-4A01                                                  | SYS-1U1320-4S01                                                  |
|--------------------------|-------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| Computing System         | Chipset                 | Intel Q35+ICH9DO                                                 | Intel Q35+ICH9DO                                                 |
|                          | CPU                     | Support Intel Core 2 Quad processor up to 2.66 GHz               | Support Intel Core 2 Quad processor up to 2.8 GHz                |
|                          | Front Side Bus          | 800/1066/1333 MHz                                                | 800/1066/1333 MHz                                                |
|                          | L2 Cache                | Up to 6 MB                                                       | Up to 6 MB                                                       |
|                          | Memory                  | Dual channel DDR2 667/800 MHZ up to 8 GB                         | Dual channel DDR2 667/800 MHZ up to 8 GB                         |
| Graphics                 | Embedded                | Intel GMA3100 intertrated                                        | Intel GMA3100 intertrated                                        |
|                          | Vram                    | Dynamically sharing system memory up to 256 MB                   | Dynamically sharing system memory up to 256 MB                   |
| Expansion Slot           | PCI                     | 1                                                                | 1                                                                |
|                          | PCIe x16                | -                                                                | 1                                                                |
| Drive Bay                | Slim ODD bay            | 1                                                                | 1                                                                |
|                          | 3.5" (Front-Accessible) | 2 SATA HDDs+1                                                    | 2 SATA HDDs+1                                                    |
| Ethernet                 | Interface               | 10/100/1000 Base-T                                               | 10/100/1000 Base-T                                               |
|                          | Controller              | LAN1: Intel 82566DM<br>LAN2: Intel 82573L                        | LAN1: Intel 82566DM<br>LAN2: Intel 82573V                        |
| Front I/O Ports          | USB                     | 2                                                                | 2                                                                |
| Real I/O Ports           | USB                     | 4                                                                | -                                                                |
|                          | PS/2                    | 2                                                                | 1                                                                |
|                          | COM                     | 1                                                                | -                                                                |
|                          | VGA                     | 1                                                                | 1                                                                |
|                          | Parallel                | 1                                                                | -                                                                |
|                          | Rj-45                   | 2                                                                | 2                                                                |
|                          | Audio                   | 2 (Mic-in, Line-Out)                                             | -                                                                |
| Power Supply             | Power Output Wattage    | 300 W                                                            | 300 W                                                            |
|                          | Input Range             | AC 100-240 V                                                     | AC 100-240 V                                                     |
| Cooling                  | Chassis Fan             | 2 (4 cm/ 24 CFM)                                                 | 4 (4 cm/ 24 CFM x3 + 15 CFM x1)                                  |
| Miscellaneous            | Notification LEDs       | Power staus, HDD activity, temperature, Fan and LAN connectivity | Power staus, HDD activity, temperature, Fan and LAN connectivity |
| Environment              | Temperature             | Operating<br>0 ~ 40° C<br>(32 ~ 104° F)                          | Non-Operating<br>-20 ~ 60° C<br>(-4 ~ 104° F)                    |
|                          |                         | Operating<br>0 ~ 40° C<br>(32 ~ 104° F)                          | Non-Operating<br>-20 ~ 60° C<br>(-4 ~ 104° F)                    |
|                          | Humidity                | 10 ~ 85% @ 40° C,<br>non-condensing                              | 10 ~ 95% @ 40° C,<br>non-condensing                              |
| Physical Characteristics | Dimension (W x H x D)   | 480 x 44 x 617 mm (19" x 1.7" x 24.3")                           | 480 x 44 x 617 mm (19" x 1.7" x 24.3")                           |
|                          | Weight                  | 10 Kg (22 lb)                                                    | 10 Kg (22 lb)                                                    |

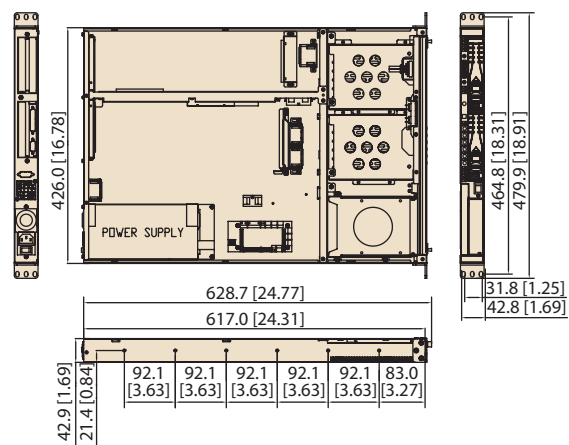
## Dimensions

Unit: mm [inch]

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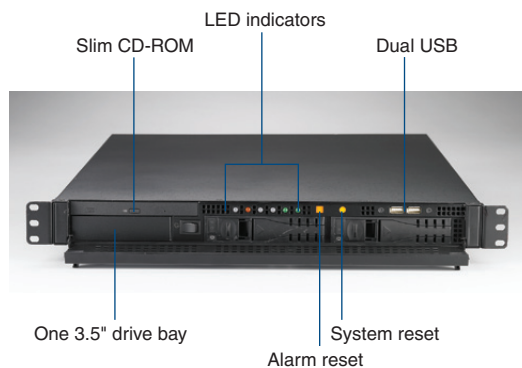
## Ordering Information

Please visit Advantech eStore for order entry.  
<http://buy.advantech.com/>

## System Contents

| Item                   | Part Number      |
|------------------------|------------------|
| <b>SYS-1U1320-4A01</b> |                  |
| Chassis                | ACP-1320MB0-30ZE |
| Motherboard            | AIMB-766G2-00A1E |
| Riser Card             | AIMB-RP10P-01A1E |
| Cooler                 | 1960049408N001   |
| <b>SYS-1U1320-4S01</b> |                  |
| Chassis                | ACP-1320BP-30ZE  |
| SBC                    | PCE-5124G2-00A1E |
| Backplane              | PCE-5B03V-01A1E  |

## Front View



Dual front-accessible  
SATA HDD trays