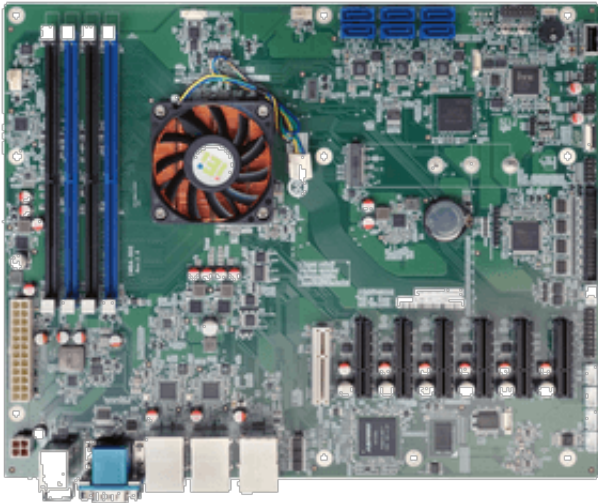


# IMBA-BDE

ATX motherboard supports 14nm Intel® Xeon® D1500 family



## Features

- » Intel® Xeon processor D-1500 product family
- » Dual-channel 2133 MHz DDR4 up to 128 GB (ECC SO-DIMM, UDIMM, RDIMM)
- » 10 GbE LAN supported
- » Support PCI Express generation 3.0 at 8GT/s I/O bandwidth
- » High speed interface for USB 3.0 and SATA 6Gb/s
- » IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Specifications

|                       |                                                             |
|-----------------------|-------------------------------------------------------------|
| BIOS                  |                                                             |
| BIOS                  | AMI BIOS                                                    |
| CPU Cooler            |                                                             |
| CPU Cooler            | 1 x CPU smart fan (1 x 4 pin)                               |
|                       | 1 x System smart fan (1 x 4 pin)                            |
| Dimensions            |                                                             |
| Dimensions            | 244mm x 305mm                                               |
| Environment           |                                                             |
| Humidity              | 5% ~ 95%, non-condensing                                    |
| Operating Temperature | 0°C ~ 60°C                                                  |
| Storage Temperature   | -10°C ~ 70°                                                 |
| I/O Interface         |                                                             |
| Digital I/O           | 8-bit digital I/O (2 x 5 pin)                               |
| Display               | 1 x VGA (up to 1920 x 1200 @60 Hz)                          |
| Ethernet              | LAN1&2: Intel® I210-AT PCIe controller                      |
|                       | LAN3&4: Inphi CS4227 PHY (optional)                         |
| Expansion             | 1 x 10GbE LAN card slot                                     |
|                       | 1 x M.2 connector (M key, 2242~2280, SATA & PCIe x2 signal) |
|                       | 1 x PCIe x4 Gen 2                                           |
|                       | 5 x PCIe x4 Gen 3                                           |
| I/O Interface         |                                                             |
| I/O Interface         | 1 x SMBus(1 x 4 pin)                                        |
|                       | 1 x KB/MS(Internal, 1 x 6 pin)                              |
|                       | 1 x Internal RS-232/422/485(2 x 5 pin, P=2.54)              |
|                       | 1 x Internal USB 2.0(180° Type-A)                           |
|                       | 1 x RS-232(External)                                        |
|                       | 4 x USB 3.0(External)                                       |
|                       | 2 x USB 2.0(External)                                       |
|                       | 4 x Internal RS-232(2 x 5 pin, P=2.54)                      |
|                       | 4 x Internal USB 2.0(2 x 4 pin, P=2.54)                     |
|                       | 1 x KB/MS(External)                                         |
|                       | 2 x LAN LED(1 x 2 pin)                                      |

|                                       |                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------|
|                                       | 1 x Front panel(2 x 7 pin, power LED, HDD LED, speaker, power button, reset button) |
|                                       | 6 x SATA 6Gb/s(RAID 0/1/5/10 supported)                                             |
|                                       | 1 x I <sup>2</sup> C(I <sup>2</sup> C (1 x 4 pin))                                  |
| I/O Interface                         |                                                                                     |
| Other On-board Devices and Interfaces | 1 x TPM (2 x 10 pin)                                                                |
| Power                                 |                                                                                     |
| Power consumption                     | 3.3V@0.11A, 5V@2.83A, 12V@3.97A                                                     |
|                                       | (Intel® Xeon D-1548 2.0GHz CPU with 32GB (four 4 GB) 2133MHz DDR4 memory)           |
| Power Supply                          | ATX power supply, ATX/AT mode support                                               |
| System                                |                                                                                     |
| CPU                                   | Intel® Xeon® processor D-1500 product family                                        |
|                                       | Intel® Xeon® processor D-1548 (up to 8-core, 12M cache, TDP=45W)                    |
|                                       | Intel® Xeon® processor D-1518 (up to 4-core, 6M cache, TDP=35W)                     |
| Memory Max.                           | Four 288-pin 2133 MHz dual-channel DDR4 SDRAM unbuffered DIMMs support up to 128 GB |
| Watchdog Timer                        |                                                                                     |
| Watchdog Timer                        | Software programmable supports 1~255 sec. system reset                              |
| Weight                                |                                                                                     |
| Weight                                | GW: 1200g / NW: 700g                                                                |

## Ordering Information

|                    |                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| IMBA-BDE-D1548-R10 | ATX Motherboard supports 14nm Intel® Xeon® D-1548, DDR4, VGA, Dual Intel GbE/ Dual 10GbE, Four USB 3.0, Six SATA 6Gb/s, HD Audio and RoHS      |
| IMBA-BDE-D1518-R10 | ATX Motherboard supports 14nm Intel® Xeon® D-1518, DDR4, VGA, Dual Intel GbE/ Dual 10GbE, Four USB 3.0, Six SATA 6Gb/s, M.2, HD Audio and RoHS |

## Packing List

|                                    |                   |
|------------------------------------|-------------------|
| 1 x IMBA-BDE single board computer | 1 x I/O shielding |
| 2 x SATA cable                     | 1 x QIG           |