

*单板计算机*

*工业主板*



*w w w . i e i w o r l d . c o m . c n*

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| --- | --- | --- | --- |
| IMBA-BDE |  | ATX 主板支持 14nm Intel® Xeon® D1500 系列, DDR4, VGA, dual Intel® GbE/dual Intel® |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 10GbE, 四个 USB 3.1 | Gen 1 (5Gb/s), 六个 SATA 6Gb/s, HD 音频, 以及 RoHS |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 双通道DDR4 2133 |  |  |  |  | SATA 6Gb/s前面板 | 支持高速 10GbE 附加卡 |  |
| MHz |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 集成 10GbE LAN 接口 |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | USB 2.0 | 10GbE LAN 卡，满足客户要求，支持高速网络连接 |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | (Type A) |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | USB 2.0 |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M.2 (M key) |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | RS-232 |  |  |  |  |  |  |  |  |  |  | LAN-10G2SF-PHY-CS4227 |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | TPM |  |  |  | LAN 1 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | RS-232 |  |  | LAN 2 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 x PCIe x4 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | (Gen2) |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | KB/MS VGA | 4 x USB 3.1 |  |  |  |
|  |  |  |  | 1 x PCIe x45 x PCIe x4 (Gen3) |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 2 x USB 2.0 |  |
|  |  |  |  | （仅适用于10GLAN卡） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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*产品规格*

SoC



IIntel® Xeon 处理器 D-1500 产品系列

内存



四个 288-pin 2133 MHz 双通道 DDR4 SDRAM 无缓冲 DIMMs 最高支持 128 GB BIOS



UEFI BIOS

网络



LAN1: Intel® I211-AT PCIe 控制器

LAN2: Intel® I210-AT PCIe 控制器

LAN3&4: Inphi CS4227 PHY ( 可选 )

显示输出



1 x VGA (up to 1920x1200@60 Hz)

外部 I/O 接口



1 x KB/MS 2xUSB2.0

1 x RS-232 4 x USB 3.1

内部 I/O 接口



1 x KB/MS (1x6 pin) 1 x RS-232/RS-422/485 (2x5 pin, P=2.54)

1 x USB 2.0 (180° Type-A) 4 x RS-232 (2x5 pin, P=2.54)

4 x USB 2.0 (2x4 pin, P=2.54) 6 x SATA 6Gb/s (RAID 0/1/5/10 supported)

前面板



1 x 前面板 (2x7 pin, 电源 LED, HDD LED, 扬声器 , 电源按钮 , 重启按钮 )

LAN LED



2 x LAN LED (1x2 pin)

TPM



1 x TPM (2x10 pin)

SMBus



1 x SMBus (1x4 pin)

I²C



1 x I²C (1x4 pin)

扩展



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

 看门狗定时器

软件可编程，支持 1~255 秒系统复位

数字 I/O



8-bit 数字 I/O (2x5 pin)

风扇接口



1 x CPU 智能风扇 (1x4 pin)

1 x 系统智能风扇 (1x4 pin)

电源



ATX 电源 , ATX/AT 模式电源

功耗



3.3V@0.11A, 5V@2.83A, 12V@3.97A

(Intel® Xeon D-1548 2.0GHz CPU 以及 32GB ( 四个 4 GB) 2133MHz DDR4 内存 )

工作温度



0°C ~ 60°C

存储温度



-10°C ~ 70°C

工作湿度



5% ~ 95%, 无冷凝

尺寸



244mm x 305mm

重量



GW: 1200g / NW: 700g

 CE/FCC 标准

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| *Native* | *3* |  | USB |  |  |  |
| PCIe |  |  |  |  |
| Gen. | DDR4 2133 | USB 3.1 | SATA 6Gb/s | Ten GbE |  |



*产品特征*

* Intel® Xeon 处理器 D-1500 产品系列
* 双通道 2133 MHz DDR4 最高达 128 GB (ECC SO-DIMM, UDIMM, RDIMM)
* 支持 Intel® 10 GbE
* 支持 PCI Express generation 3.0 at 8GT/s I/O 带宽
* 高速接口 USB 3.0 以及 SATA 6Gb/s
* IEI 一键恢复解决方案可快速创建 OS 备份和恢复

*包装清单*

1 x IMBA-BDE single board computer

1 x I/O shielding

2 x SATA cable

1 x QIG

*订购信息*



料号 描述

ATX motherboard supports 14nm Intel® Xeon® D-1548,

IMBA-BDE-D1548-R10 DDR4, VGA, dual Intel® GbE, dual 10GbE, four USB 3.0, six SATA 6Gb/s, HD Audio and RoHS

ATX motherboard supports 14nm Intel® Xeon® D-1518,

IMBA-BDE-D1518-R10 DDR4, VGA, dual Intel® GbE, dual 10GbE, four USB 3.0, six SATA 6Gb/s, HD Audio and RoHS

LAN-10G2SF-PHY-CS4227 10 GbE LAN card, dual port support, RoHS

|  |  |  |
| --- | --- | --- |
| 19800-000049-RS | LPT flat cable, 240mm, P=2.54 |  |
| 19800-000075-RS | PS/2 KB/MS cable with bracket, 220mm, P=2.0 |  |
| 19800-003100-100-RS | Dual port USB cable with bracket, 300mm, P=2.54 |  |
| 19800-020100-100-RS | RS-232 cable with bracket, Dual 10-pin to dual DB-9, 230mm, |  |
| P=2.54 |  |
|  |  |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P |  |
| 32205-003800-300-RS | RS-422/485 cable, 200mm, P=2.0 |  |
| TPM-IN01-R20 | 20-pin Infineon TPM module, software management tool, |  |
| firmware v3.17 |  |
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IMBA-BDE-2019-V10