

Sugon Server

I840-G25



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| Sugon I840-G25 is a new-generation 4-way server, which supports Intel® Xeon® E7-4800 V2 processor series, is designed with leading architecture, can be up to 60 cores and 6TB memory, and provides excellent calculation capability and scalability. With the latest computing technology and reliability design, I840-G25 can perfectly run key applications such as virtualization, database, ERP and large e-commerce applications. With perfect management functions, it is very suitable for application demands in the industries such as government, large enterprises, finance and energy. |

Features:

* High performance
* High reliability
* High manageability
* High scalability

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| Overview |
| High performance  4 Intel Xeon E7-4800 v2 processors are supported. Single processor can support maximum 15 cores and the maximum L3 cache is 37.5MB. Compared to the previous products, the computing performance is improved 2 times. The memory capacity can be enlarged by at most 3 times. IO bandwidth is improved 4 times.  High reliability  Multiple redundancy functions such as hot-plug hard disk, hot-plug power, hot-plug fan, memory imaging and memory backup functions can ensure continuous and stable system operation.  High manageability  Sugon independently develops intelligent BMC management, which can realize comprehensive devices management, monitoring, configuration, failure location and analysis.  Ultra-high scalability and customer investment protection  96 memory slots can support maximum 6TB memory and can meet the large memory requirements of applications such as virtualization and memory calculation.  24 2.5-inch HDDs scalability provides flexible local storage capacity;  Support at most 11 PCI-E 3.0 Expansion slots and improve the data throughput rate to 8GT/s.  The enhanced scalability can easily deal with multiple scenarios such as distributed database. |

Technical Features

Functional features Advantages

DIMMs increase to 96. Whenconfigured with 64GB memory, the maximum capacity can be up to 6TB, which can meet the largememory requirements of applications such as virtualization and memory calculation.

Ultra-Powerful memory scalability

Brand-new processor architecture:

Compared to older products, the maximum core number of single processor increases from 10 to 15. The maximum L3 cache increases from 30MB to 37.5MB. Compared to older Westmere-EX processor, the performance is doubled.

The integrated BMC can assist customers to control the system operation status. Support alert, iKVM, failure recovery function, remote access/install/configure/control the server via network. Provide hardware level access and control and complete compatibility, including failure type, detailed failure description, failed component location, and upgrading the BIOS/BMC FW.

Ultra-powerful BMC monitoring and management function

Powerful IO scalability

Support 11 PCIe 3.0 expansion cards Compared to PCIe 2.0, the bandwidth is doubled. The optional 24 2.5 inch SAS/SATA/SSD HDDs can provide flexible local storage capacity.

Improve system reliability and availability via power and fan hot plug and redundant design. Provide advanced memory protection function, including X4/X8 SDDC, memory mirroring which can extremely reduce the system crash. The hot plug PCIe slot permits the users to replace PCI device and eliminate the failure without shutdown, which can improve system reliability and reduce maintenance cost.

Multiple RAS features

Technical specifications

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| Host performance | |
| Processor | Support maximum 4 Intel Xeon E7-4800 V2 processors  Do not support E7-4800 processor |
| Chipset | C602J |
| Memory features | Support DDR3 ECC Registered memory |
| Slot and capacity | 8 memory boards, maximum 96 memories supported, and 6TB memory. |
| HDD controller | Optional SAS or SAS RAID card |
| HDD | Support at most 24 2.5-inch SATA/SAS/SSD hard disk |
| Display system | Integrated AST2400 graphic controller |
| Network | Embedded 2 x 10000M RJ45 interface network adapter |
| Expansion performance |  |
| Expansion slot | Total 11 PCI-E slot  4 PCI-E3.0 x16 slot  7 PCI-E3.0 x8 slot  When 2 CPUs are installed, maximum 4 memory boards are supported and maximum 5 PCI-E devices are supported  When 4 CPUs are installed, maximum 8 memory boards are supported; When 8 memory boards are installed, maximum 8 PCI-E devices are supported. When the number of installed memory boards is less than 4, maximum 11 PCI-E devices are supported. |
| SATA CD ROM | not configurable |
| Peripheral interface of rear board | 1 x VGA  2 x USB2.0  2 x 10000M RJ45  1 x COM  1 x 100M management interface |
| Power supply | Maximum 4 power supplies are supported. The power of each module is 920W  Support N+N or N+1 redundancy  Platinum-level efficient power and 94% conversion efficiency |
| Heat dissipation fan | 4 x 90mm middle system fan  3 x 80mm rear system fan |
| Chassis | 4U Rack Chassis |
| Chassis dimension |  |
| Chassis dimension | 795.08mm(L) x 437.14mm(W) x 178.0mm(H) |
| Full-duty whole weight | 50KG full loading (no package) |
| OS compatibility |  |
| OS | Windows Server 2008 R2 64bit  Red hat Enterprise Linux 6.2 64bit  SuSE Linux 11　Enterprise Server sp2 64bit  OS compatibility is depended on the system configuration. For more information, consult Sugon sale representative or Sugon customer service hotline. |
| Environment adaptation |  |
| Temperature range | Operating: 10℃～35℃(50℉～95℉)  Non-operating: -40℃～55℃(-40℉～131℉) |
| Relative Humidity | Operating: 35％～80％ RH [Maximum 90％RH（40℃）]  Non-operating: 20％～93％ RH |
| Vibration | Frequency: 5Hz～150Hz; Acceleration: ≤20m/s2; Amplitude: ≤0.15mm |
| Shock | Peak acceleration: 150m/s2 ～300m/s2 Duration: ≤11ms |
| Collision | Peak acceleration: 100m/s2 ～150m/s2; Time: within 1000 times |

Remark:

1. All rated temperatures are over sea level. The temperature will reduce 1 ℃for 300m increment. The maximum elevation is 3000m. Avoid direct sunlight.
2. The upper limit of the work height is 3000m. The upper limit of non-work height is 9000m.
3. 93% maximum storage temperature is based on the maximum temperature 40℃. The stored maximum height should correspond to minimal pressure 70kPa.

The maximum humidity gradient under non-work condition is 10%RH per minute.

Remark: The above table is only for reference. For detailed configuration, contact sale representative of Sugon. Sugon reserves the right to change the above configuration without notification.

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| **For more information:**  Please visit official Sugon website: www.sugon.com or dial the customer service hot line: 400-810-0466.  You can also contact Sugon branches distributed throughout the state, for contact information, please log in the official website of Sugon.  Sugon reserves the right modify the product specifications or other product information (including, but not limited to weights, appearance, dimensions or other physical elements) without any further notification.  Any alternation to information involved in the document caused by products upgrading or other causes, no additional notification will be provided. All product graphics involved in the document shall be subject to the physical products. |