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INTELLIGENT MEMORY DDR4 High Density Modules



Discripation

IM's DDR4 IMOriginal modules are specifically designed for industrial applications, such

as ruggedized telecom and networking environments, which demand high-density memory in various form factors. In addition to mainstream 8GB and 16GB DDR4 modules, IM offers a variety of high-density options, including 64GB RDIMM in dual-rank x4 components, 32GB VLP RDIMM in single-rank x4 or dual-rank x8 components, and 32GB UDIMM modules available in both VLP and standard heights with ECC options. These configurations support diverse application needs. Available module types include UDIMM, VLP ECC UDIMM, SODIMM, and ECC SODIMM, providing versatile solutions across multiple use cases. VLP height options (18.75mm) are available for our DDR4 RDIMM and ECC UDIMM modules to meet height-restricted environments, allowing for more efficient heat dissipation. All modules meet JEDEC standards and are designed for long-term, superior performance.

KEY FEATURES

IM's DRAM Module lines for more flexibility and customization:

- IMOriginal modules that utilize exclusively IM's own quality components
- IMSelect modules, which can be configured with various third-party ICs

IM's DDR4 High-Density Modules:

Use IM's own brand of DDR4 16Gb components for higher performance, reliability, compatibility and FA/RMA support. IMSelect also available upon request.

Increased Capacity

Not only offered in high-density 32GB & 64GB, but also mainstream densities of 16GB, 8GB, & 4GB

Fixed BOM

Major components are fixed (e.g. DRAM components, Registered Component, EEPROMs, SPD data contents)

Ownership

IM designs, manufactures, tests and supports all kinds of technical & after-sales services

Additional Service Options Available

- Fully RoHS (without exemption)
- Conformal Coating
- Anti-Sulphuration

Sales services

Flexible order quantities and shipment arrangements

Longevity

For 7 years+ and long-term support

IMOriginal High-Density DDR4 Modules

| IMOriginal High-Density DDR4 Modules (using IM's DDR4 16Gb Components) | | | | |
|--|------------|------------------------|-----------------------------|--|
| Module Types | Module PN | DRAM Com ponents PN | Configurations* | |
| RDIMM | IMM8G72D4R | IMAG04D4G | 64GB, 36pcs x4 in 2 ranks, | |
| | DD4AG-B062 | BBG-062 | PC4-25600 (3200MT/s) | |
| VLP RDIMM | IMM4G72D4R | IMAG04D4G | 32GB, 18pcs x4 in 1 rank, P | |
| | VS4AG-B062 | BBG-062 | C4-25600 (3200MT/s) | |
| VLP RDIMM | IMM4G72D4R | IMAG08D4G | 32GB, 18pcs x8 in 2 ranks, | |
| | VD8AG-B062 | BBG-062 | PC4-25600 (3200MT/s) | |
| VLP ECC UDIMM | IMM4G72D4D | IMAG08D4G | 32GB, 18pcs x8 in 2 ranks, | |
| | VD8AG-B062 | BBG-062 | PC4-25600 (3200MT/s) | |
| UDIMM | IMM4G64D4D | IMAG08D4G | 32GB, 16pcs x8 in 2 ranks, | |
| | UD8AG-B062 | BBG-062 | PC4-25600 (3200MT/s) | |
| UDIMM | IMM4G72D4S | IMAG08D4G | 32GB, 18pcs x8 in 2 ranks, | |
| | OD8AG-B062 | BBG-062 | PC4-25600 (3200MT/s) | |

| SODIMM | IMM4G64D4S OD8AG-B062 | | 32GB, 16pcs x8 in 2 ranks, PC4-25600 (3200MT/s) | | |
|--|--------------------------|--|--|--|--|
| *All modules available in Commercial Temperature grade. For Industrial Temperature | | | | | |

^{*}All modules available in Commercial Temperature grade. For Industrial Temperature grade, please contact IM.

 All modules are available in Commercial Temperature grade. For Industrial Temperature grade, please contact IM.

Specifications

IM's DDR4 High-Density Modules are designed for industrial applications, offering high-density memory in various form factors. The modules meet JEDEC standards and are designed for long-term superior performance.

Product Usage Instructions

Module Types

- RDIMM: 64GB, 36pcs x4 in 2 ranks
- VLP RDIMM: 32GB, 18pcs x4 in 1 rank / 32GB, 18pcs x8 in 2 ranks
- VLP ECC UDIMM: 32GB, 18pcs x8 in 2 ranks
- UDIMM: 32GB, 16pcs x8 in 2 ranks
- SODIMM: 32GB, 16pcs x8 in 2 ranks

Key Features

- Uses DDR4 16Gb components for higher performance and reliability
- Offers high-density options including 32GB & 64GB modules
- Fixed BOM for consistent quality
- Designed, manufactured, tested, and supported by IM
- Flexible order quantities and shipment arrangements
- Long-term support for over 7 years

Installation Instructions

- 1. Select the appropriate module type based on your requirements.
- 2. Ensure compatibility with your system specifications.
- 3. Handle the module carefully to avoid damage from static electricity.
- 4. Insert the module firmly into the memory slot until it clicks into place.
- 5. Power on your system and check if the new memory is recognized.

FAQs

Q: How do I determine the compatibility of a module with my system?

A: Check your system's motherboard specifications for supported memory types and capacities. You can also refer to the module's datasheet for compatibility information.

Q: Can I mix different module types in my system?

A: It is recommended to use modules of the same type and capacity for optimal performance. Mixing different types may lead to compatibility issues.

Q: How do I troubleshoot if my system does not recognize the new memory module?

A: Try reseating the module, ensuring it is properly inserted. If the issue persists, test the module in another compatible system to determine if it is functioning correctly.

Documents / Resources



INTELLIGENT MEMORY DDR4 High Density Modules [pdf] User Guide IMM8G72D4RDD4AG-B062, MM4G72D4RVS4AG-B062, DDR4 High Density Modules, DDR4, High Density Modules, Density Modules, Modules

References

- User Manual
- INTELLIGENT

MEMORY

DDR4, DDR4 High Density Modules, Density Modules, High Density Modules, IMM8G72D4RDD4AG-B062, INTELLIGENT MEMORY, MM4G72D4RVS4AG-B062, Modules

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