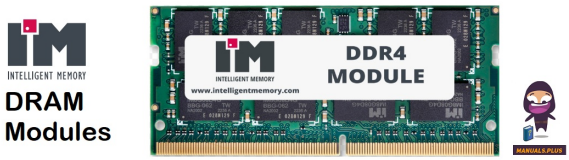
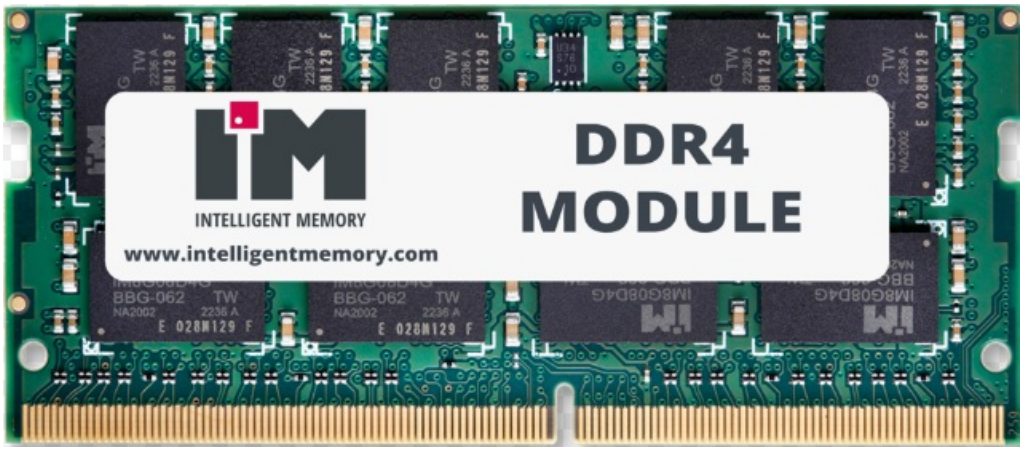


INTELLIGENT MEMORY DRAM Modules Owner's Manual

Contents

INTELLIGENT MEMORY DRAM Modules



Product Usage Instructions

Installation

1. Ensure that the system is powered off and unplugged.
2. Locate the memory slots on your device.
3. Carefully align the DRAM module with the slot, ensuring the notch matches the slot key.
4. Gently press down on the module until it clicks into place.
5. Power on your device and verify the new memory capacity in the system settings.

Maintenance

To ensure optimal performance of your DRAM module:

- Avoid static discharge by handling the module by its edges.
- Periodically clean the contacts using a soft, dry cloth.
- Check for any physical damage or signs of corrosion and replace if necessary.

FAQs

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

A: It is recommended to use the same type of DDR modules to ensure compatibility and stable performance.

Q: What should I do if my system does not recognize the new memory module?

A: Try reseating the module firmly in the slot or testing it in another compatible system to verify functionality.

Q: Is ECC (Error Correction Code) important for my application?

A: ECC can help improve data integrity in critical applications but may not be necessary for all users depending on their usage scenarios.

IM introduced the first DDR3 16GB memory module with varying form factors, and additionally now offers several rare densities, configurations, features and package types over a number of dif-ferent DRAM product categories. Our DRAM modules are designed with our robust DRAM compo-nents to meet the most excruciating requirements for industrial and embedded applications.
Working at just about any temperature and speed that you can imagine, Intelligent Memory‘s DRAM modules are highly reliable with built-in error correction (ECC) features. From standard to speciali-zed, our low-volume, high-mix solutions are optimized to offer an assortment of products with high sustained performance, stability, and endurance.

- Providing memory solutions for industrial and embedded applications for over 30 years
- From standard to special, legacy to mainstream
- Long product lifetimes with continued support
- In-house product designs and testing capabilities
- Customizable configurations and feature-rich products across a range of solutions
- ECC and register feature enabled products
- Reliable product change management processes

DRAM PRODUCT FAMILY

- **DDR5**
  - Different Form Factors: Non-ECC UDIMM, ECC UDIMM, Non-ECC SODIMM, ECC SODIMM and RDIMM
  - Higher bandwidth performance up to PC5-44800
  - Capacity: 8GB to 64GB
  - JEDEC Standard 1.1V
  - Environmental compliance, longevity and assembly service available
  - Fully tested in application environment for stability and performance
- **DDR4**
  - Different Form Factors: Non-ECC UDIMM, ECC UDIMM, non-ECC SODIMM, ECC SODIMM, RDIMM, mini-RDIMM and ECC mini-UDIMM
  - Higher bandwidth performance (up to PC4-25600)
  - Capacity: 2GB to 64GB
  - PCB Height: Standard, Very Low Profile,
  - Ultra Low Profile
  - JEDEC Standard 1.2V
  - Operating Temperature: Commercial and Industrial Grade
- **DDR3**
  - Different Form Factors: Non-ECC UDIMM, ECC UDIMM, non-ECC SODIMM, ECC SODIMM, LRDIMM, RDIMM, mini-RDIMM and ECC mini-UDIMM
  - Higher bandwidth performance (up to PC3-14900)
  - Capacity: 1GB to 32GB
  - PCB Height: Standard, Very Low Profile, Ultra Low Profile
  - JEDEC Standard 1.35V & 1.5V
- **DDR2**
  - Different Form Factors: Non-ECC UDIMM, ECC UDIMM, non-ECC SODIMM, ECC SODIMM, RDIMM and Mini-RDIMM
  - Higher bandwidth performance (up to PC2-6400) Capacity: 512MB to 8GB
  - PCB Height: Standard, Very Low Profile
  - JEDEC Standard 1.8V
- **DDR**
  - Different Form Factors: Non-ECC UDIMM, ECC UDIMM, Non-ECC SODIMM, ECC SODIMM and RDIMM
  - Higher bandwidth performance (up to PC-3200) Capacity: 256MB to 2GB
  - PCB Height: Standard, Very Low Profile
  - JEDEC Standard 2.5V
- SDRAM
  - Different Form Factors: non-ECC UDIMM, ECC UDIMM, non-ECC SODIMM and ECC SODIMM
  - Higher bandwidth performance (up to PC-133) Capacity: 128MB to 512MB
  - PCB Height: Standard
  - JEDEC Standard 3.3V

DRAM Modules	LRDIMM	RDIMM	UDIMM	RSODIMM	SODIMM	MINI-RDIMM	MINI-UDIMM
FPM/EDO (5V/3.3V, max: 50ns)			✓ Max: 256MB		✓ Max: 128MB		
SDRAM (3.3V, max: PC-133)			✓✓ Max: 512MB		✓✓ Max: 512MB		
DDR (2.5V, max: PC-3200)		✓ Max: 1GB	✓✓ Max: 1GB		✓✓ Max: 1GB		
DDR2 (1.8V, max: PC2-6400)		✓ Max: 8GB	✓✓ Max: 4GB		✓✓ Max: 4GB	✓✓ Max: 512MB	
DDR3 (1.5V/1.35V, max: PC3-14900)	✓ Max: 32GB	✓✓ Max: 32GB	✓✓✓ Max: 16GB	✓ Max: 16GB	✓✓✓ Max: 16GB	✓✓ Max: 16GB	✓✓ Max: 16GB
DDR4 (1.2V, max: PC4-25600)		✓✓ Max: 64GB	✓✓✓ Max: 32GB		✓✓✓ Max: 32GB	✓✓ Max: 16GB	✓✓ Max: 32GB
DDR5 (1.1V, max: PC5-44800)		✓ Max: 64GB	✓ Max: 32GB		✓ Max: 32GB		
Features:	✓ ECC or Non-ECC are optional ✓ VLP / ULP (Very Low Profile / Ultra Low Profile) are available ✓ I-Temp is available						

For more information or to request samples, please visit us at www.intelligentmemory.com

You may also contact
our sales team directly at sales@intelligentmemory.com

September 2023

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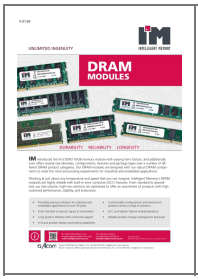
Documents / Resources

	[INTELLIGENT MEMORY DRAM Modules](#) [pdf] Owner's Manual DDR5, DDR4, DDR3, DDR2, DRAM Modules, DRAM, Modules

References

- Alcom electronics | Home
- Alcom electronics | Home
- User Manual