

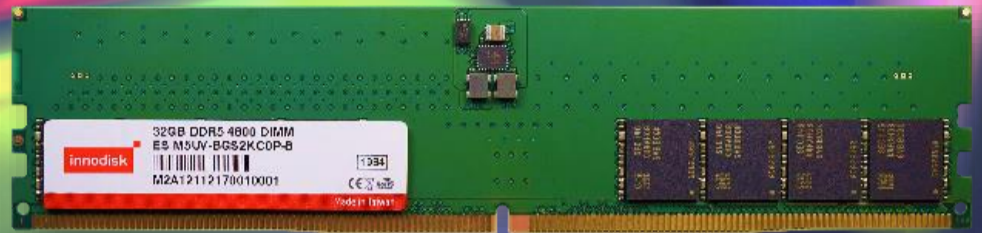


Backplane  
Systems  
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# Product Brief



Industrial DRAM Module

# DDR5

The JESD79-5 DDR5 SDRAM specification has significant improvements in capacity, speed and voltage. Structure wise, the Power Management IC (PMIC) is moved onto the DIMM, reducing redundant power management circuitry on the motherboard for unused DIMM slots in previous generations.

From JEDEC standard, the DDR5 specification is bringing the maximum potential capacity for a single DDR5 DIMM to 128GB, a theoretical maximum transfer speed of 6400MT/s which is doubling the rate of DDR4, along with the improved power consumption as 1.1V.

The modules from Innodisk comply with all relevant JEDEC standards and are available in **8GB**, **16GB** and **32GB** capacities, as **4800MT/s**.

In the industrial space, reliability, ruggedness, and compatibility are just as important, and often even more important than speed and capacity. To offer our customers the highest quality products, and to ensure peace of mind among industrial leaders, Innodisk sends its products through many in-house tests and has also obtained a series of reputable [third-party certifications](#).

## Features

- Fully Tested and Optimized for Stability and Performance
- Uses Original IC to Meet Strict Industrial Standards
- On module Power Management IC (JEDEC Standard: Vout 1.1V).  
2 PMIC specifications as listed below:

DIMM Type	Vin	Vout
Server (DDR5 RDIMM)	12V	1.1V
Client (DDR5 UDIMM/SODIMM)	5V	1.1V

- Operating Environment (Tc): Standard 0°C to 95°C / Wide Temp. -40°C to 95°C
- On-die ECC
- Anti-Sulfuration Protection Against Harsh Environments
- 30μ" Gold Finger
- RoHS Compliance ; CE/FCC Certification

### Free Upgrade



Anti-Sulfuration

30μ"



30μ" Gold Finger



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## Ordering Information\*

### 288-PIN DDR5 UDIMM

Innodisk Part Number	Density	Module Config.	IC Config.	Speed	Voltage	Temp. (Tc)	Latest Supported CPU
M5U0-BGS2KCVP	32GB	2Gb x64	2Gbx8	4800 MT/s	1.1V	0°C to 95°C	Intel Alder Lake-S AMD Raphael

### 262-PIN DDR5 SODIMM

Innodisk Part Number	Density	Module Config.	Device Type	Speed	Voltage	Temp. (Tc)	Latest Supported CPU
M5S0-BGS2OCVP	32GB	2Gb x64	2Gbx8	4800 MT/s	1.1V	0°C to 95°C	Intel Alder Lake-S AMD Raphael

### 288-PIN DDR5 ECC UDIMM

Innodisk Part Number	Density	Module Config.	Device Type	Speed	Voltage	Temp. (Tc)	Latest Supported CPU
M5C0-BGS2MCVP	32GB	2Gb x80	2Gbx8	4800 MT/s	1.1V	0°C to 95°C	Intel Alder Lake-S AMD Raphael

### 262-PIN DDR5 ECC SODIMM

Innodisk Part Number	Density	Module Config.	Device Type	Speed	Voltage	Temp. (Tc)	Latest Supported CPU
M5D0-BGS2QCVP	32GB	2Gb x80	2Gbx8	4800 MT/s	1.1V	0°C to 95°C	Intel Alder Lake-S AMD Raphael

### 288-PIN DDR5 RDIMM

Innodisk Part Number	Density	Module Config.	Device Type	Speed	Voltage	Temp. (Tc)	Latest Supported CPU
M5R0-BGS2BCVP	32GB	2Gb x80	2Gbx8	4800 MT/s	1.1V	0°C to 95°C	Intel Sapphire Rapids AMD Genoa

\*For more product information, please contact your local sales representative.  
\*64GB and 128GB will be introduced when available.

## Add-on Selections



Side Fill



Conformal Coating



Rugged Clip



Heat Spreader

## Contact us

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