Storage & Server IO

Amphenol

# DDR5 SO-DIMM Connectors

## HIGH SPEED HIGH DENSITY SO-DIMM SOCKETS

Amphenol DDR5 SO-DIMM connectors are engineered to deliver high-speed performance and increased bandwidth in a compact, power-efficient form factor. At half the size of standard DIMMs, these sockets enable better thermal management and reduced power consumption, making them ideal for next-generation computing platforms. The 262-position design supports DDR5 digital validation and is available in multiple heights and orientations to fit diverse customer requirements.

- High-density design of 0.50 mm pitch saves board space
- High-speed DDR5 digital validation
- Will provide different key positions that aid alignment
- SMT mechanical hold-downs
- Right-angle orientation and vertical orientation for different customer preferences



### TARGET MARKETS



### FEATURES

| FEATURES | BENEFITS |
|---|---|
| 4.00 mm, 8.00 mm, 5.20 mm, 9.20 mm height offerings | Accommodates different customer applications |
| High density design of 0.50 mm pitch | Saves board space<br>Allows more transition channel for signal |
| LCP, Halogen-free, resin housing material | Withstands high temperature IR flow |
| Different key positions | Helps to align connector and prevent mismating |
| SMT mechanical hold-downs | Ensures co-planarity adjustment during mounting |

# TECHNICAL INFORMATION

## MATERIAL

- LCP

## ELECTRICAL PERFORMANCE

- Data Rate (Mb/s): 3200/6400

## MECHANICAL PERFORMANCE

- Current Per Contact: 1 A max.
- Voltage Rating: 1.1 V max.

## ENVIRONMENTAL

- RoHS compliant
- Halogen-Free

## SPECIFICATIONS

- Product Specification: GS-12-1667

## PACKAGING

- Tape & Reel

## TARGET MARKETS/APPLICATIONS



Servers
Workstations



Desktop PCs
Notebook PCs



Routers
Switches
Base Stations



Embedded Systems

# PART NUMBERS

Find part number details using the search box on www.amphenol-cs.com

| Description | Pitch (mm) | Height (mm) | Orientation | Part Numbers |
|---|---|---|---|---|
| DDR5 SO-DIMM Right Angle | 0.5 | 4 | Standard | 10162416* |
| DDR5 SO-DIMM Right Angle | 0.5 | 4 | Reverse | 10157422* |
| DDR5 SO-DIMM Right Angle | 0.5 | 8 | Standard | 10157591* |
| DDR5 SO-DIMM Right Angle | 0.5 | 8 | Reverse | 10162981* |
| DDR5 SO-DIMM Vertical | 0.5 | NA | NA | 10160554* |
| DDR5 SO-DIMM Right Angle | 0.5 | 5.2H | SMT, STD | 10164239 |
| DDR5 SO-DIMM Right Angle | 0.5 | 5.2H | SMT, RVS | 10164240 |
| DDR5 SO-DIMM Right Angle | 0.5 | 9.2H | SMT, STD | 10174568 |
| DDR5 SO-DIMM Right Angle | 0.5 | 9.2H | SMT, RVS | 10174569 |

*Denotes base part number. Please contact Amphenol for complete part numbers.

**WHERE INNOVATION CONNECTS**
Scan to learn more ▶

SSIODDR5SODIMM1025EA4



**Disclaimer**
Please note that the above information is subject to change without notice.