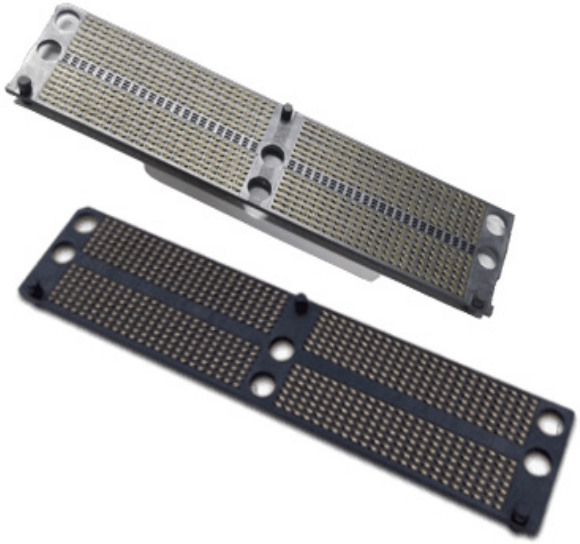
Storage & Server IO

Amphenol

DDR5/LPDDR5 CAMM2 Connector

COMPLIES TO JEDEC SO-032 SPEC

The DDR5/LPDDR5 CAMM2 connector follows JEDEC standards with 644 pins/666 pins, has a pitch of 1.00x1.38mm, and a connector height of 1.0mm. It provides dual channel memory which could support higher bandwidth and can catch up all DDR5 capacities needed. This connector is developed to support lower-power DDR5 memory and does not require ground shielding. Another significant advantage is that the LPDDR5 CAMM2 connector provides users with the flexibility of upgrading and repairing it, compared to the conventional LPDDR5 memory, which was soldered down on the board.



TARGET MARKETS



FEATURES

- Supports faster data rates
- Very low profile
- Compression contacts
- No module insertion
- Matrix form factor
- 1 connector support 128GB
- No need of BGA
- 644 pins or 666 pins options

BENEFITS

- Faster transition
- Saves system height space
- No insertion and extraction force issue
- No housing crack issue
- Facilitates good airflow
- Provides higher memory capacity
- Easier for upgrading and repairing
- Flexible to support INTEL different variation roadmap chipset

TECHNICAL INFORMATION

MATERIAL

- Contacts: Copper Alloy, Gold flash or 15µin min. of Gold or 30µin min. of Gold on contact area, Nickel plating overall (Underplate)
- Insulator: High–temperature, Thermal plastic (UL94V–0), Black color

ELECTRICAL PERFORMANCE

- Current Rating: 1.0A/pin.
- LLCR: 50mΩ max. (initial)
- Withstanding Voltage: 500VAC (at sea level, one minute)
- Insulation Resistance: 1MΩ min.
- Temperature Rise: 30°C max.

MECHANICAL PERFORMANCE

- Durability: 25 cycles
- Vibration, Mechanical Shock
- Reseating: No damage

PACKAGING

- Soft Tray

ENVIRONMENTAL

- Flammability: UL94V–0
- RoHS and Low Halogen

APPROVALS & CERTIFICATION

- UL E232356

SPECIFICATIONS

- Amphenol Product Specification: S–DDR–015
- Amphenol Packaging Specification: PKSDDR5009
- Amphenol Application Specification: S–DDR–016
- JEDEC Module Outlines: MO–357/MO–358
- JEDEC Socket Outlines: SO–032

TARGET MARKETS/APPLICATIONS



AIPC
Desktop PCs
Workstations
Server



Embedded Systems

PART NUMBERS

Height	Part Numbers	Pin Count	Type
1.00	CMM5C100X001A	644 Pins	Dual Channel
	CMM5D100X001A	666 Pins	
	CMM5CP001	Top Cover	
	CMM5BP00X	Back Plate	

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

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

PART NUMBER SELECTOR – CONNECTOR

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

CMM5 — X — XXX — X — XXX — X — X

Double Data Rate 5 Series Compression Connector

Application Type	
C	C Type
D	D Type

Housing Thickness	
100	1.00mm

Contact Plated	
1	30µin Au on Contact Area
2	15µin Au on Contact Area
3	10µin Au on Contact Area
4	Gold Flash on Contact Area

Sequence Number	
001	

Packing Options	
A	Soft Tray Package

Customer Code Options
Blank
0 – 9
A – Z

PART NUMBER SELECTOR – TOP COVER

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

CMM5 — C — P — 0 — 0 — 1

PART NUMBER SELECTOR – BACK PLATE

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

CMM5 — B — P — 0 — 0 — X

1	H=1.60 (System Board Thickness: 0.80)
2	H=1.70 (System Board Thickness: 0.90)
3	H=1.80 (System Board Thickness: 1.00)
4	H=1.90 (System Board Thickness: 1.10)
5	H=2.00 (System Board Thickness: 1.20)

SSIOLPDDR5CAMM20125EA4

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