FORESEE®

LPCAMM2

Featuring a new memory form factor, it promises to bridge PC and mobile memory application scenarios. It has four x32 LPDDR5/5X soldered onto a single memory module and connects to the motherboard via a high-speed connector. It achieves a 128-bit memory bus on a single module, opening new design possibilities for AI terminals, commercial-use devices, ultra-thin laptops, and other scenarios requiring high speed, low power consumption, and miniaturized packaging.

Product Features

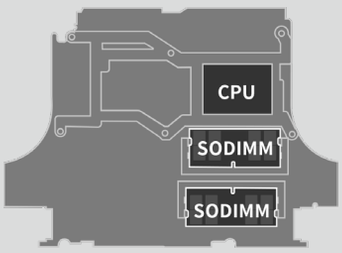
- Compatible with 315-ball and 496-ball LPDDR5/5x designs
- More than 50% lower power consumption than DDR5 SODIMMs
- Large PCB grounding area for improving heat dissipation
- Upgradable, low maintenance cost
- Supports over 7,500MT/s
- Saves over 60% space compared to SODIMMs
- High-speed contact connector for stable connection and better ESD protection

Applications

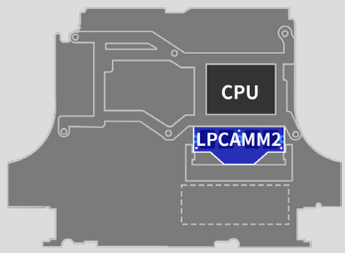
AI terminals | HPCs | Ultra-thin laptops | Commercial-use devices | Workstations

This version is to be updated on October 18th, 2024.Actual conditions are subject to the Longsys website.

LPCAMM2 vs. Traditional Memory

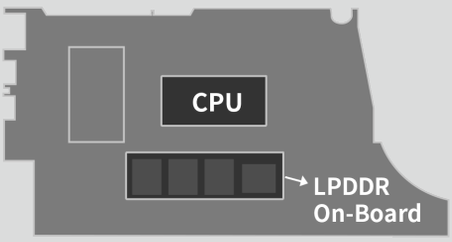


Bulky, slow, high power consumption

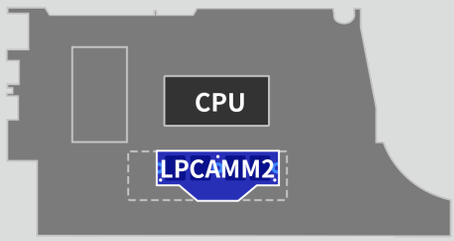


Slimmer, faster, low power consumption, cost-effective

VS



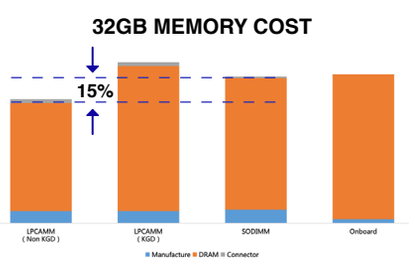
Bulky, slow, high power consumption



Upgradable, high capacity, low maintenance cost

Advantages

Cost benefits

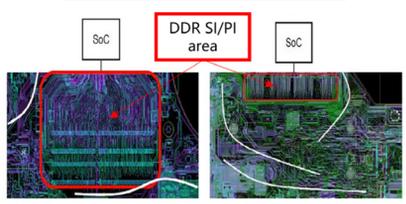


- FORESEE LPCAMM2 creates a more cost-effective memory solution.

Environmental requirements

- Meets new EU regulations.
- Upgradable, and the low maintenance cost better satisfies EU environmental demands.

Motherboard design



- Unified LPCAMM2 interface significantly reduces the complexhigh-speed parallel DRAM traces.
- Can reduce motherboard layer count.

LPCAMM2 Line-up

Product Series	Interface	DRAM	Capacity	Archi-tecture	Data Rate	Band Width	Operating Voltage	Operating Temperature	Size
LPCAMM2	CAMM2	x32 315ball LPDDR5/5X	16GB	1R×16	6400Mbps	128bit (x16, 8 subchannels)	VIN BULK 4.25V~5.5V	0°C~85°C	78*23 mm
LPCAMM2	CAMM2	x32 315ball LPDDR5/5X	32GB	1R×16	7500Mbps	128bit (x16, 8 subchannels)	VIN BULK 4.25V~5.5V	0°C~85°C	78*23 mm

*Data is sourced from internal testing of Longsys. The actual performance may vary between different devices.

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