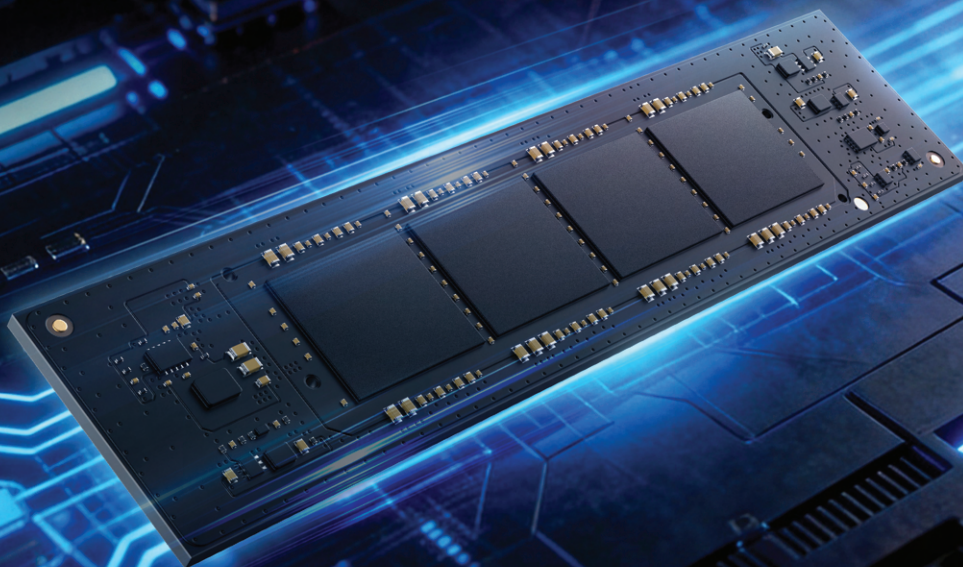




AIDIMM™

Reliably supports large edge AI models



256bit

Ultra-wide bit width

307.2GB/s

Single-module
max. bandwidth

128GB

Larger capacity

*The picture effect is for creative display only, the final product shall prevail.

Existing Memory Pain Points of AI Agent Hosts



Large Models Demand High Memory Capacity

70B-parameter models need over 96GB memory; traditional schemes require 128GB memory to sustain basic AI computation.



Traditional Design Redundancy

128GB memory assembled by 8x16GB LPDDR5x chips, overly complex structure.



Large Footprint

Dispersed layout of 8 LPDDR5x chips takes up massive motherboard space, hindering slim device design.



Hard to Upgrade & Maintain

Soldered chips cannot be upgraded; expansion requires motherboard replacement.



Poor Heat Dissipation

Uneven heat distribution triggers thermal throttling, weakening AI operation stability.



Severe Signal Interference

Complex wiring causes signal reflection, attenuation and crosstalk at high frequency.

Innovative Architecture, Redefine AI Memory Experience

4 LPDDR5x chips in single-sided layout with high-speed, high-density, high-pin-count connectors



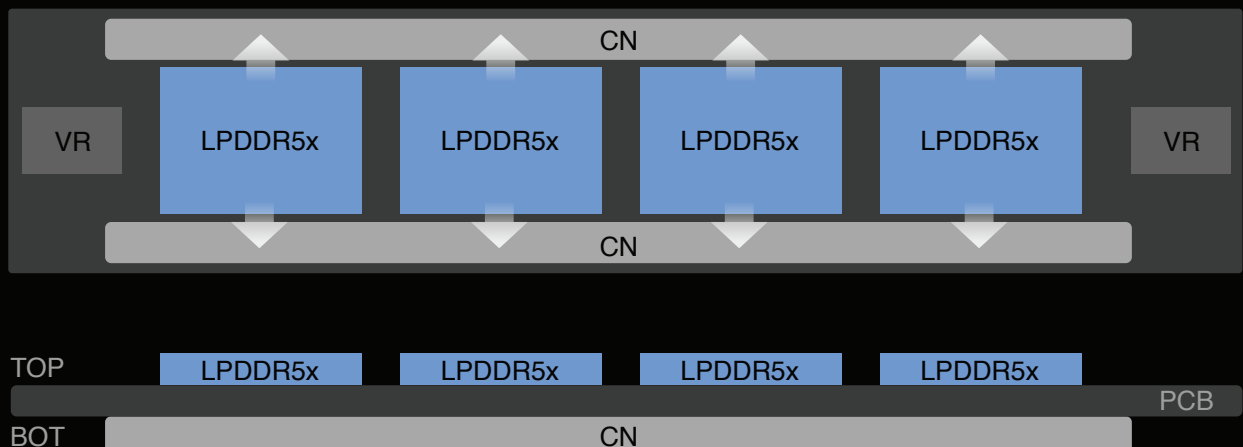
More Stable Signals

No cross-layer/cross-side wiring; shorter traces and balanced impedance reduce signal loss.



Better Heat Dissipation

Centralized single-sided chips fit cooling structures directly for efficient overall heat dissipation.



Board-to-Board Connection, One-Step Upgrade & Maintenance



Pluggable Connectors

Tool-free quick assembly & disassembly, outperforming traditional onboard soldering design.



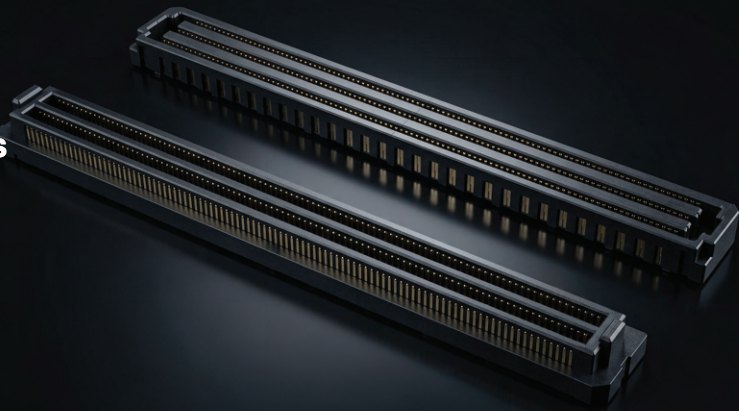
Flexible & Easy Upgrades

Independent replacement and expansion available without disassembling the mainboard.



Easy Maintenance

Faulty chips can be quickly located and replaced, reducing after-sales costs and service cycles.



vs. Mainstream Memory Form Factors, Worry-Free AI Deployment

Comparison Dimensions	Longsys AIDIMM	DDR5 SODIMM	LPDDR5x LPCAMM2
Bit Width / Channel	256-bit single module, quad-channel in one	Single strip 64bit, dual-channel needs 2 strips	128-bit single module, single-channel equals dual-channel
Single-module max. Bandwidth	~307.2 GB/s	~51.2 GB/s	~153.6 GB/s
Per-module Capacity	Up to 128GB	Up to 32GB	Up to 64GB
Power Consumption	0.9V-1.05V dynamic voltage + AI power management	1.1V Standard	0.95V-1.05V dynamic voltage
Compact Design	80 × 30 × 1.6mm Ultra-compact, maximize space savings	Traditional long strip, large space occupation	60% space saved
Applicable Scenarios	Edge AI computing devices	Standard & gaming laptops	Ultrabooks & basic AI computing
Upgrade Difficulty	Tool-free quick installation	Easy pluggable, self-upgradable	Dedicated port + screw fixing

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

Covers All Edge AI Devices

AI PC



Edge AI Computing Terminal



Edge AI Host



Intelligent Inference Terminal



STORAGE FOR AI



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