

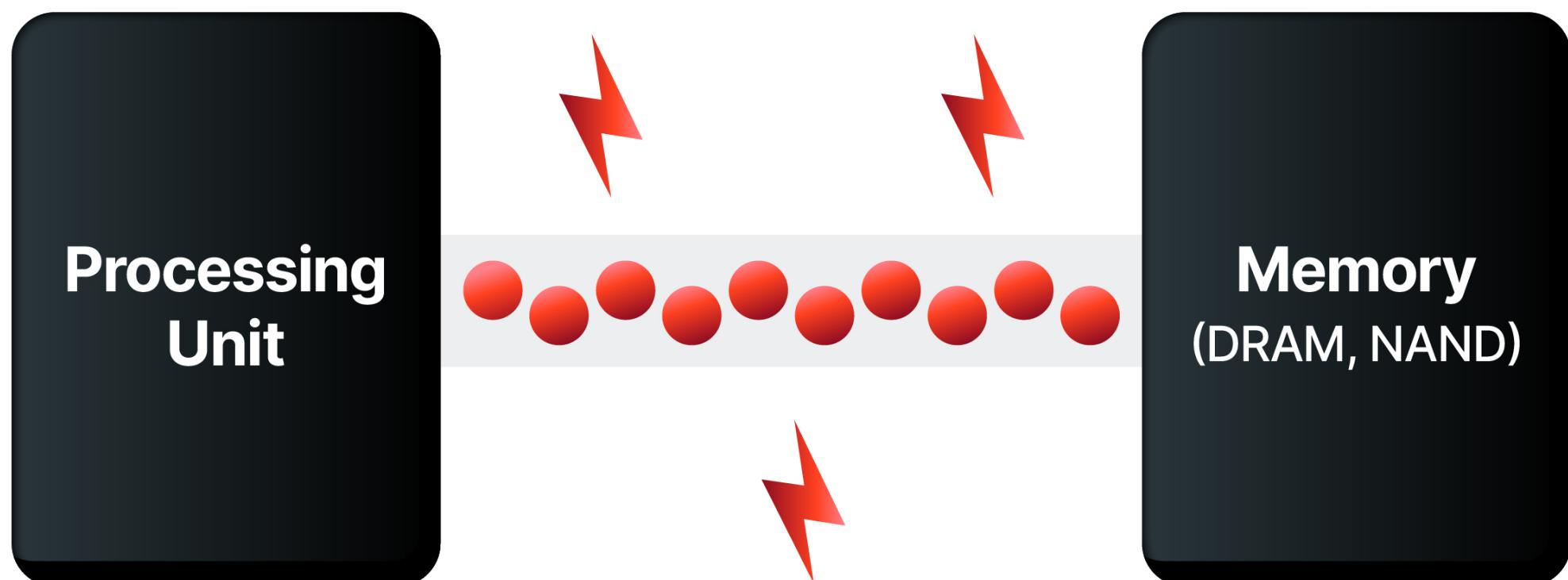


Boost Your AI

AiM is What You All Need from  
Data Center to Edge Device

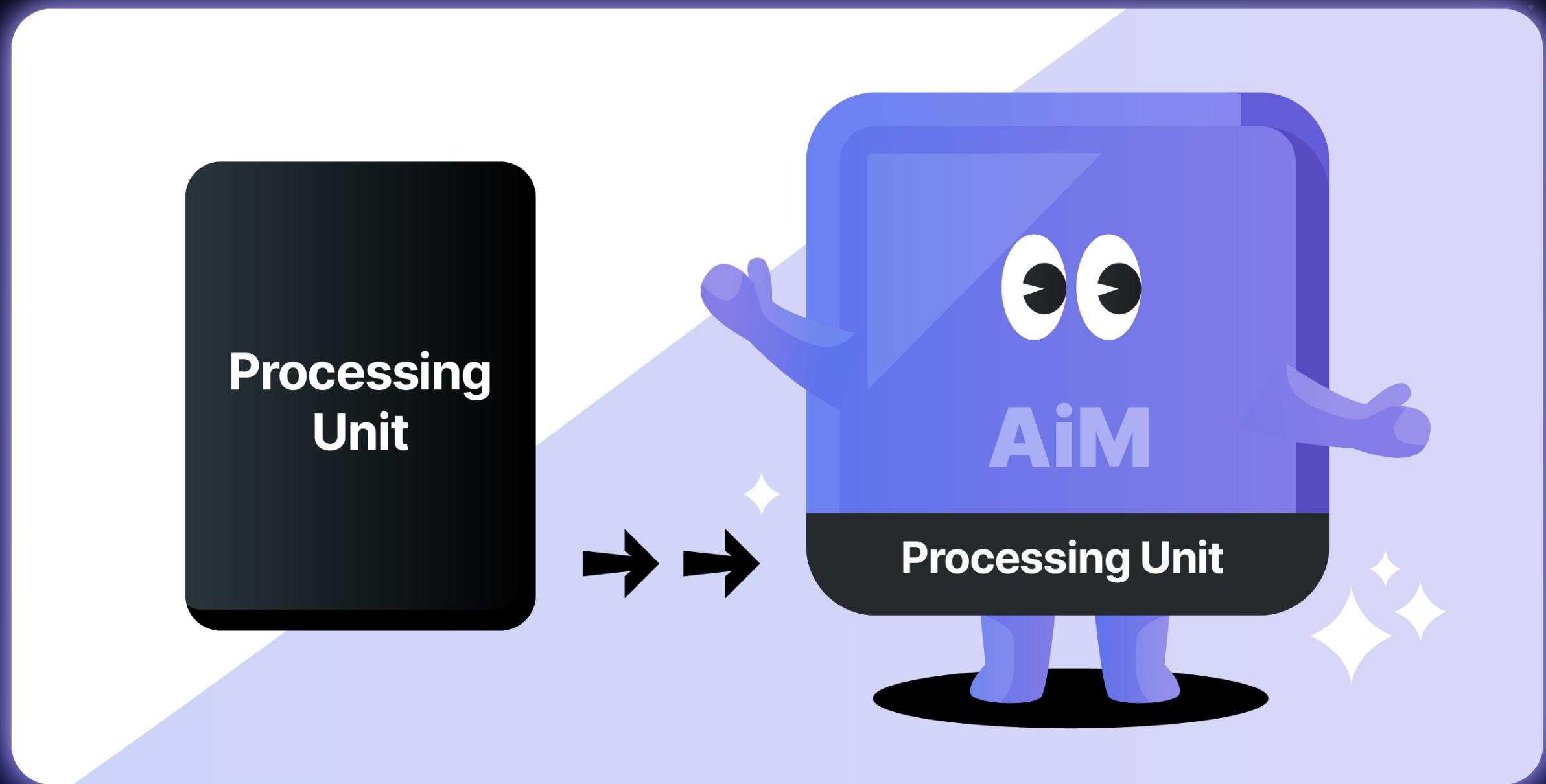


# The Era of AI and Big Data



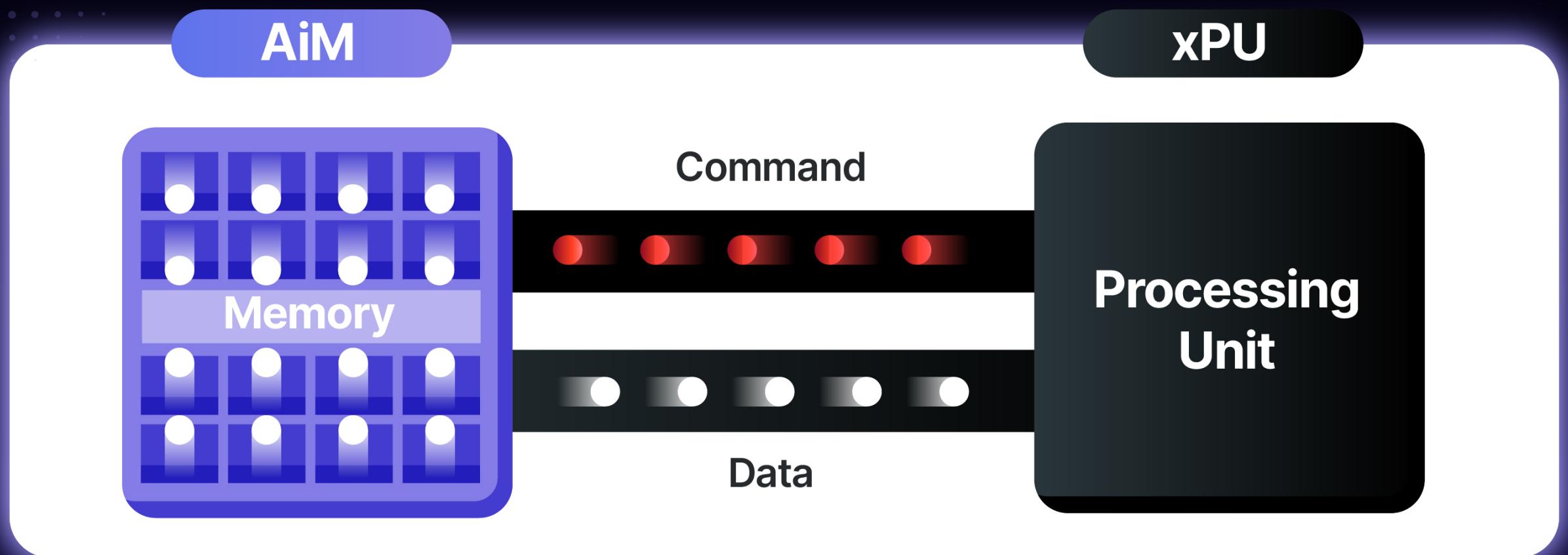
The von Neumann architecture causes data bottlenecks and excessive power consumption, requiring a next-gen solution.

# The Emergence of PIM memory



**PIM(Processing-In-Memory)** is a next-generation intelligent memory for the AI era, performing computations within the memory to overcome these technical limitations.

# SK hynix's Game-Changing PIM Memory Solution, AiM

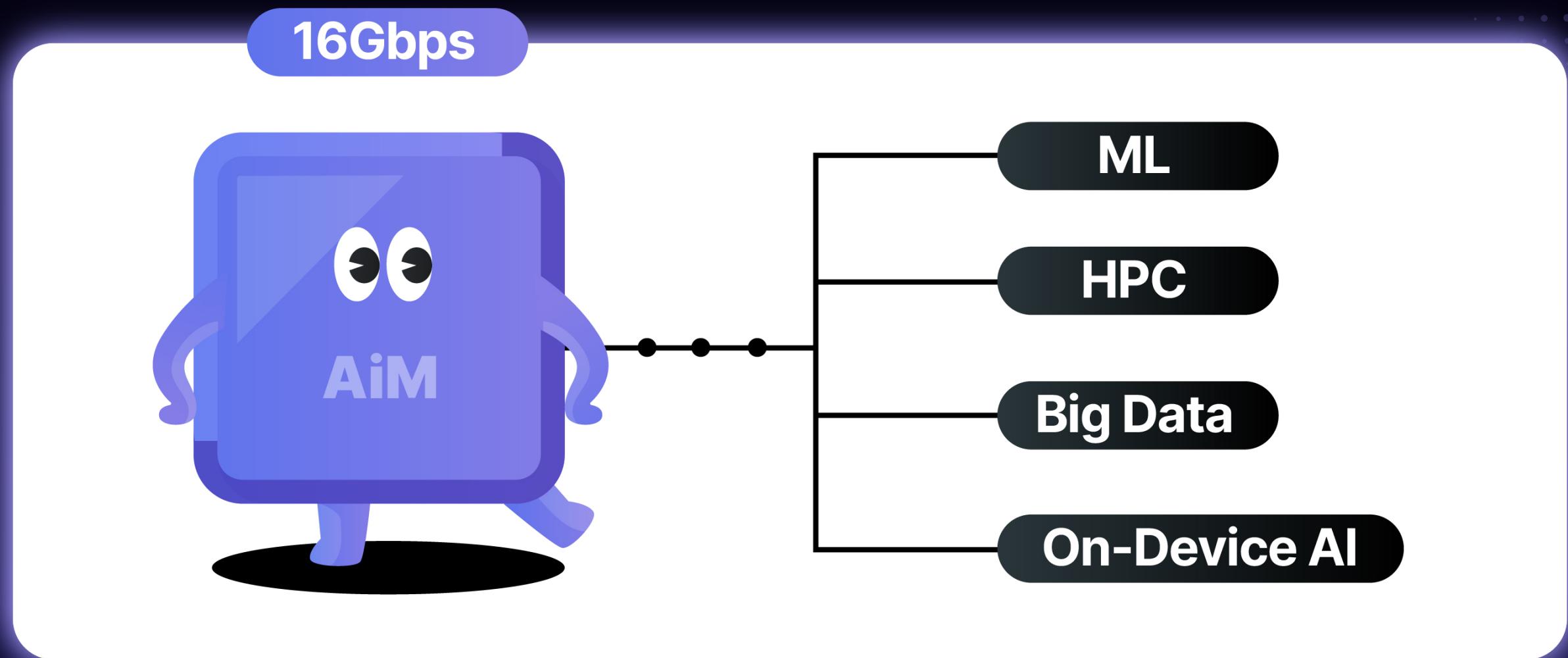


SK hynix is leading the AI memory market with its PIM-based **AiM (Accelerator in Memory)**.

AiM, with a built-in accelerator, performs computations within maximize internal bandwidth with all bank operation, increase speed, reduce power use, and eliminate bottlenecks.

# Revolutionizing Data Processing:

## AiM



SK hynix's **AiM** processes data at **16Gbps** and is utilized in various fields such as **Machine Learning**, **High-Performance Computing (HPC)**, **Big Data**, and **On-Device AI**.

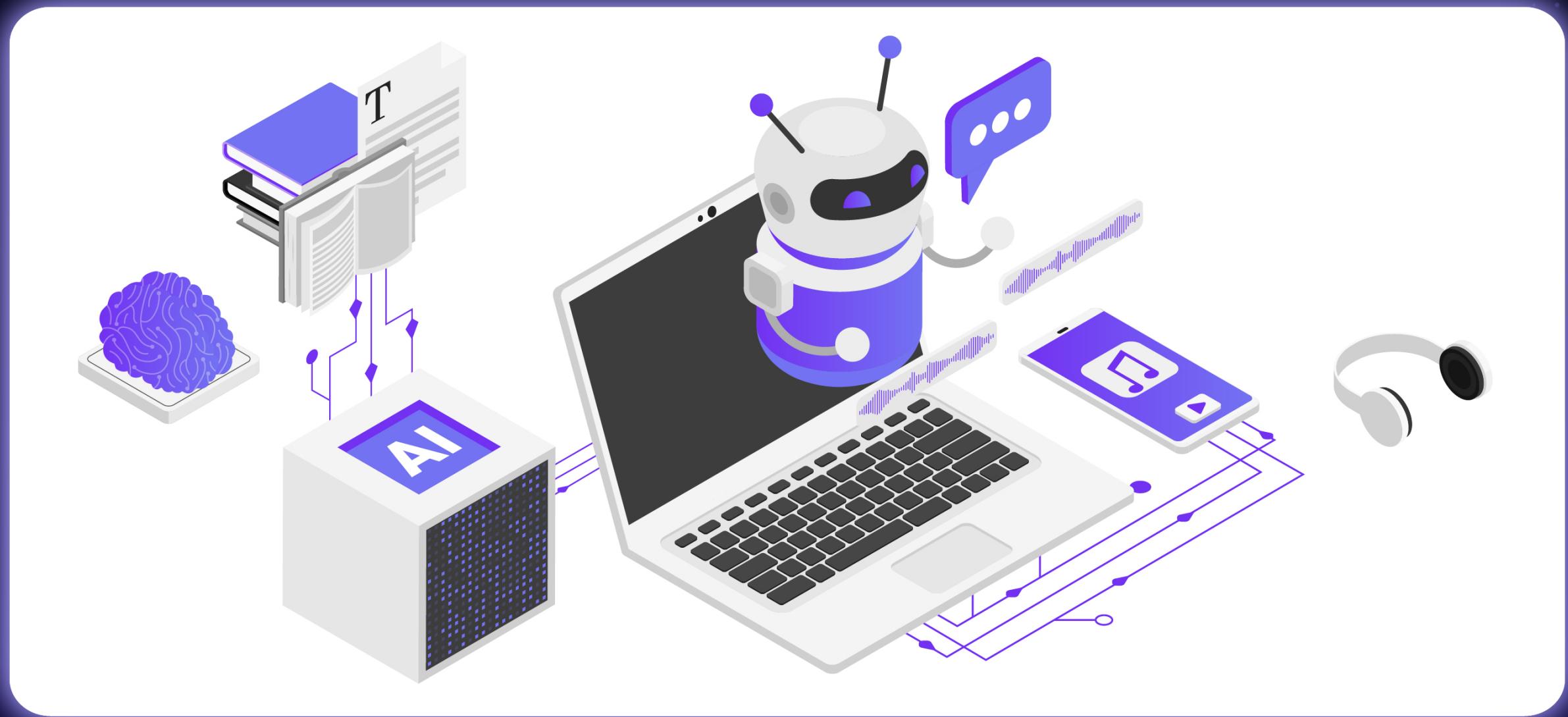
# The World's Unique PIM Solution, **AiMX**



Introduced in 2023, **AiMX (AiM based Accelerator)** is the PIM solution for data centers, with a PCIe card featuring multiple AiM modules.

It offers 10x the performance and 1/5 the power consumption of the von Neumann architecture.

# Beyond the Limits of Expansion



As we enter the **AI** era, generative AI based on **LLMs** moves large amounts of data, which makes **PIM**, transferring only the necessary results to the processor, a key **AI** memory solution.

# Toward On-Device Solutions



Generative AI is transitioning from **LLMs** to **SLMs** for mobile devices. PIM is becoming increasingly important to address data bottlenecks in **On-Device AI**, where bandwidth and power are limited.

**SK hynix** is developing PIM for **On-Device AI** to expand its **AI memory** portfolio.

PIM efficiently processes large-scale data  
and complex computations,  
offering top performance in AI systems.

SK hynix is driving PIM development to build  
the next-gen AI memory ecosystem.

**Experience Innovation with SK hynix's PIM.**

