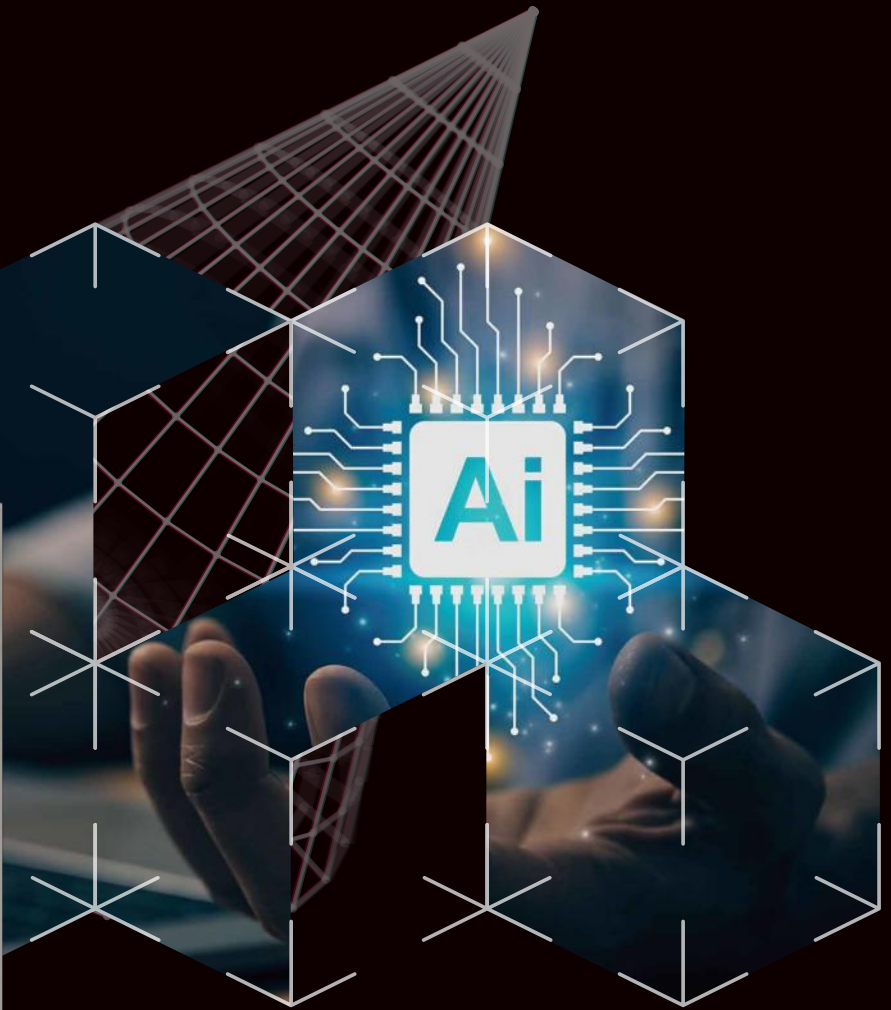
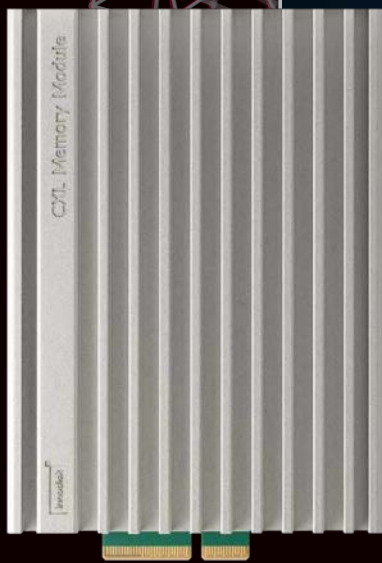


innodisk

DATA
INTELLIGENCE



CXL MEMORY MODULE

POWERING THE FUTURE OF AI SERVERS

As AI servers require faster, more scalable, and higher-density memory, traditional DDR memory solutions are struggling to keep pace, resulting in limited memory bandwidth and underutilized memory resources. Innodisk's CXL Memory Modules solve these challenges with scalable, efficient memory solutions designed for the evolving needs of cloud data centers and high-performance computing.

WHY WE NEED CXL MEMORY MODULES?



Limited Memory Bandwidth

Traditional memory architectures cannot match the growing demand for multi-core CPUs



Underutilized Memory Resources

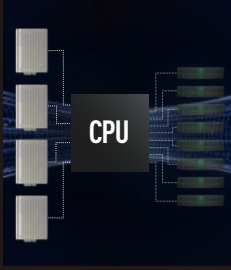
Low utilization rates of memory resources arise because they are not flexibly allocated in response to actual demand



Latency and Complexity

Varying protocols and interfaces between components cause delays and complicate the system architecture

INNODISK CXL MEMORY MODULE HIGHLIGHTS



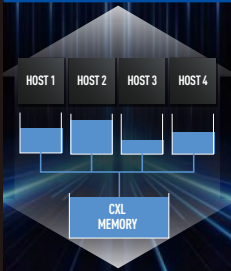
Instant 64GB Expansion per Module

- Supports 32GB/s of bandwidth via high-speed PCIe Gen5 x8
- Expands memory for AI servers without additional DIMM slots



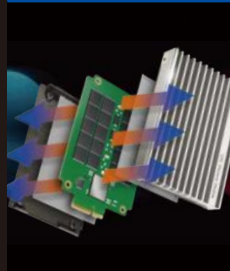
E3.S 2T Form Factor

The E3.S 2T is an EDSFF specification that allows flexible swapping and allocation of memory expansion devices



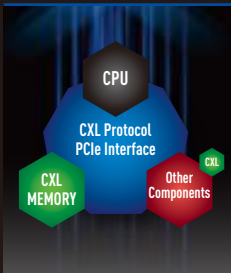
Memory Pooling for Resource Sharing

Optimizes memory resource sharing between hosts and components to improve system efficiency



Enhanced Heat Dissipation

Incorporates a high-efficiency thermal interface material and aluminum alloy casing to maintain optimal performance



Reducing Complexity and Latency

Optimizes communication protocol and hardware architecture to reduce latency and simplify system complexity



Rigorous Testing and Renowned Industry Support

Provides customers with memory expansion at minimal cost on existing systems and is supported by Innodisk's technical support services

SPECIFICATIONS

Density	64GB, 96GB, 128GB	Vertical Markets	<ul style="list-style-type: none"> • Cloud computing • Large cloud data centers • Edge computing • Network communication
CXL Compliance	CXL 1.1 and CXL 2.0		
CXL Protocol	Type 3 (CXL.mem and CXL.io)		
Interface	PCIe Gen5 x8 (32GB/s)		
DRAM IC Generation	DDR5	Applications	<ul style="list-style-type: none"> • Accelerating AI and machine learning • Large-scale analytics and graph databases • High-performance computing (HPC)
Form Factor	E3.S 2T		
Connector	EDSFF 2C (84 pin)		
Operating Temperature	0°C ~ 70°C		