



INNODISK GROUP

EDGE AI SOLUTIONS

Engineered by

innodisk

aetina

COMPLETE EDGE AI SYSTEMS FOR EVERY WORKLOAD

As AI moves to the edge, diverse deployment scenarios are creating new complexity. Innodisk goes beyond AI modules to deliver complete Edge AI solutions tailored to different workloads, performance levels, and deployment needs—helping customers accelerate deployment with scalable, application-ready systems.

Workload Tier	Deployment Scenario	TOPS Range	Typical Applications	Innodisk Edge AI Systems			Accelerator / GPU Card / Platform
Advanced AI Training	Enterprise AI Computing	2,000+ TOPS	- On-Prem LLM / SLM / VLM - Training, RAG, Fine-Tuning - Enterprise AI Platforms - Multi-Agent Collaboration				- NVIDIA H200 NVL - NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition - NVIDIA RTX PRO™ 6000 Blackwell Server Edition
High Performance AI Inference	Site-Level AI Inference	500 - 2,000 TOPS	- On-Prem Agentic AI - High-Precision Medical Imaging - Humanoid Robot AI Development - Multi-Camera AOI				- NVIDIA RTX™ 5000 Ada Generation - NVIDIA® Jetson™ Thor - Qualcomm® Cloud AI 100 Ultra - Qualcomm Dragonwing™ IQ10
	Operational AI & Analytics	100 - 500 TOPS	- Autonomous Mobile Robot (AMR) - AOI / Defect Detection - Surveillance Analytics - Vision Inspection				- NVIDIA RTX PRO™ 2000 Blackwell - NVIDIA® Jetson AGX Orin™ - NVIDIA® Jetson Orin NX™ - Qualcomm Dragonwing™ IQ9 - Intel® Core™ Ultra Series 3
General AI Inference	Low-Power Device-Side Inference	<100 TOPS	- Optical Character Recognition (OCR) - License Plate Recognition - Single-Object Detection - Basic Device Monitoring				
							

Disclaimer: TOPS figures are provided as a range for reference only. Actual performance may vary depending on model precision, accuracy requirements, and workload. Qualcomm branded products are products of Qualcomm Technologies, Inc. and/or its subsidiaries.

CONFIGURABLE EDGE AI

AI performance requires more than computing power alone. By combining flexible platform configurations with accelerator technologies from leading global partners, Innodisk delivers in-house-designed modules and complete Edge AI systems optimized for diverse workloads and deployment requirements.

AI COMPUTING PARTNERSHIPS	NVIDIA® Jetson™	CPU + GPU	High Performance
	Qualcomm® Dragonwing™	CPU + GPU + NPU + DSP	Power Efficient AI
	Intel® Core™ Ultra	NPU + GPU + CPU	Heterogeneous Compute

ADAPTABLE TO DIVERSE APPLICATIONS

Enterprise AI Computing

- On-Prem LLM / SLM / VLM
- Training, RAG, Fine-Tuning
- Enterprise AI Platforms
- Multi-Agent Collaboration



EDGE AI SERVER

Recommended Modules

- AI Memory
- Data Center SSD
- GPU Card
- High-Speed LAN Module
- Software

AccelBrain
AccelTune

Site-Level AI Inference

- On-Prem Agentic AI
- High-Precision Medical Imaging
- Humanoid Robot AI Development
- Multi-Camera AOI



EDGE AI SYSTEM

Recommended Modules

- High-Speed Memory
- High-Endurance SSD
- USB Camera
- PoE / LAN Module
- Software

iQ-Studio
iVIT
iCAP

Operational AI & Analytics

- AOI / Defect Detection
- Surveillance Analytics
- Vision Inspection



COMPACT AI SYSTEM

Recommended Modules

- Embedded Memory
- Industrial SSD
- MIPI / GMSL2 Camera
- LAN / COM Module
- Software

iQ-Studio
iVIT
iCAP

Innodisk Edge AI Architecture

Innodisk has developed a comprehensive Edge AI architecture to accelerate AI deployment at the edge. Centered on Edge AI systems, it brings together hardware innovation, self-developed software, and firmware technologies to deliver a full-range, flexible portfolio for diverse intelligent applications.



Contact Our
Edge AI Experts

Five Integrated Edge AI Layers. One System Core.

EDGE AI STACK			SOFTWARE VALUE-ADD	
SOFTWARE / FIRMWARE	Cloud AI Platform	iCAP	Device Management Monitoring / OTA / Diagnostics	
	AI Stack SDK	AccelBrain / AccelTune / iQ-Studio / iVIT	Inference & Tuning Model Deployment / Training / Optimization	
	Software Tools	iSeries Software		
	OS & Middleware Support	Windows / Linux / BSP / eAPI / Drivers		
ACCELERATOR / GPU CARD	High Performance	Power Efficiency		
	Enhanced Integration			
AI PLATFORM	NVIDIA RTX PRO	QUALCOMM	Runtime & System Support OS Porting / Runtime Support / Pre-Configured System / eAPI Hardware Control / Software Configuration	
	INTEL			
AI STORAGE / MEMORY	x86-Based	ARM-Based		
	Edge Server	Expandable System		
AI PERIPHERAL	Flash	DRAM	Data Management Firmware Customization / Health Monitoring / Encryption & RAID	
	Camera	LAN	Sensing & Communication Vision Input / Transmission / Real-Time Control	
	Air Sensor	Storage		
	Display	CAN Bus / CAN FD		
	Wireless	Serial		
			System-Configured. Lifecycle-Supported.	

PROJECT-BASED CUSTOMIZATION SERVICE

Edge AI deployment is complex. Innodisk solves design and compatibility challenges before the last mile through flexible, project-based customization—helping you meet unique application needs with confidence and create value for both your business and your end customers.

From Portfolio Foundation To Vertical Enablement

Customization Scope

GPU Card

Software

Flash Storage

Embedded Board

OOB (Out-of-Band) Module

DRAM Module

Camera Module

Hardware Design

- Support GPU, CPU, NPU and ASIC AI accelerator solutions
- Fully compatible with Innodisk products (Flash, DRAM, Camera, I/O peripherals, and more)
- Chassis, ID, mechanical and thermal design
- Electronic and functional modifications
- I/O customization, logo labeling

Software Enablement

- Supports Qualcomm platforms, iQ-Studio for AI demos/testing, iQ-Foundry for model conversion/deployment
- Supports iVIT, the Innodisk AI suite SDK for AI training and inference
- Compatible with iCAP, the Innodisk cloud administration platform
- SDK supports eAPI (GPIO, fan control, I2C/SMBus, watchdog)

BIOS Customization

- Logo personalization, default password setup, DMI info customization, setup defaults, POST hotkey customization
- Simplified BIOS and OTA updates, with automatic BIOS recovery to correct configuration errors and prevent system failures

PROVEN EXPERTISE FROM DESIGN TO MANUFACTURING

Innodisk brings together in-house R&D and manufacturing capabilities, backed by recognized ISO certifications, information security management, and sustainability initiatives. We provide a solid foundation for quality assurance, compliance readiness, and long-term collaboration. Let's Architect Intelligence!

20+

Years of Experience

25

Support Sites Worldwide

300+

R&D Engineers

200+

Technology Patents

INDUSTRIAL RELIABILITY

IN-HOUSE VALIDATION

PRODUCT LONGEVITY

LIFECYCLE SUPPORT

Advanced Quality Control & Trusted Compliance

Innodisk demonstrates excellence in quality, sustainability, safety, and information security, backed by FCC, CE, RoHS, UKCA, ISO 9001, IECQ QC 080000, ISO 14001, ISO 14064-1, ISO 45001, and ISO/IEC 27001.



OUR FOOTPRINT SPANS THE GLOBE

From IPC to the Edge AI market, we never stop innovating. We pioneer solutions for diverse industries, driving progress forward.



HEADQUARTERS

Innodisk Corporation Taiwan

TEL: +886-2-7703-3000
E-mail: sales@innodisk.com

EUROPE

Innodisk Europe B.V.

TEL: +31-40-3045-400
E-mail: eusales@innodisk.com

Innodisk France

TEL: +33(0)1-34-89-50-28
E-mail: fr_sales@innodisk.com

Innodisk Germany GmbH

TEL: +49 (0) 7243-3430180
E-mail: dach_sales@innodisk.com

USA

Innodisk USA Corporation

TEL: +1-510-770-9421
E-mail: usasales@innodisk.com

US Central Office

TEL: +1-510-770-9421

US East Coast Office

TEL: +1-510-770-9421

JAPAN

Innodisk Japan Corporation

TEL: +81-3-6667-0161
E-mail: jp_sales@innodisk.com

CHINA

Innodisk Shenzhen Corporation

TEL: +86-755-2167-3689
+86-755-2167-3690
E-mail: sales_cn@innodisk.com

Beijing Office

TEL: +86-010-82458120
+86-010-82458130

Shanghai Office

TEL: +86-21-64198038
+86-21-64195356

Chengdu Office

TEL: +86-28-67197490



ABOUT INNODISK

Founded in 2005, Innodisk is a global leader in industrial memory and storage, now advancing into edge AI. From reliable storage to intelligent edge solutions, we empower real-time data, computing, and decision-making to help architect a more intelligent world.

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