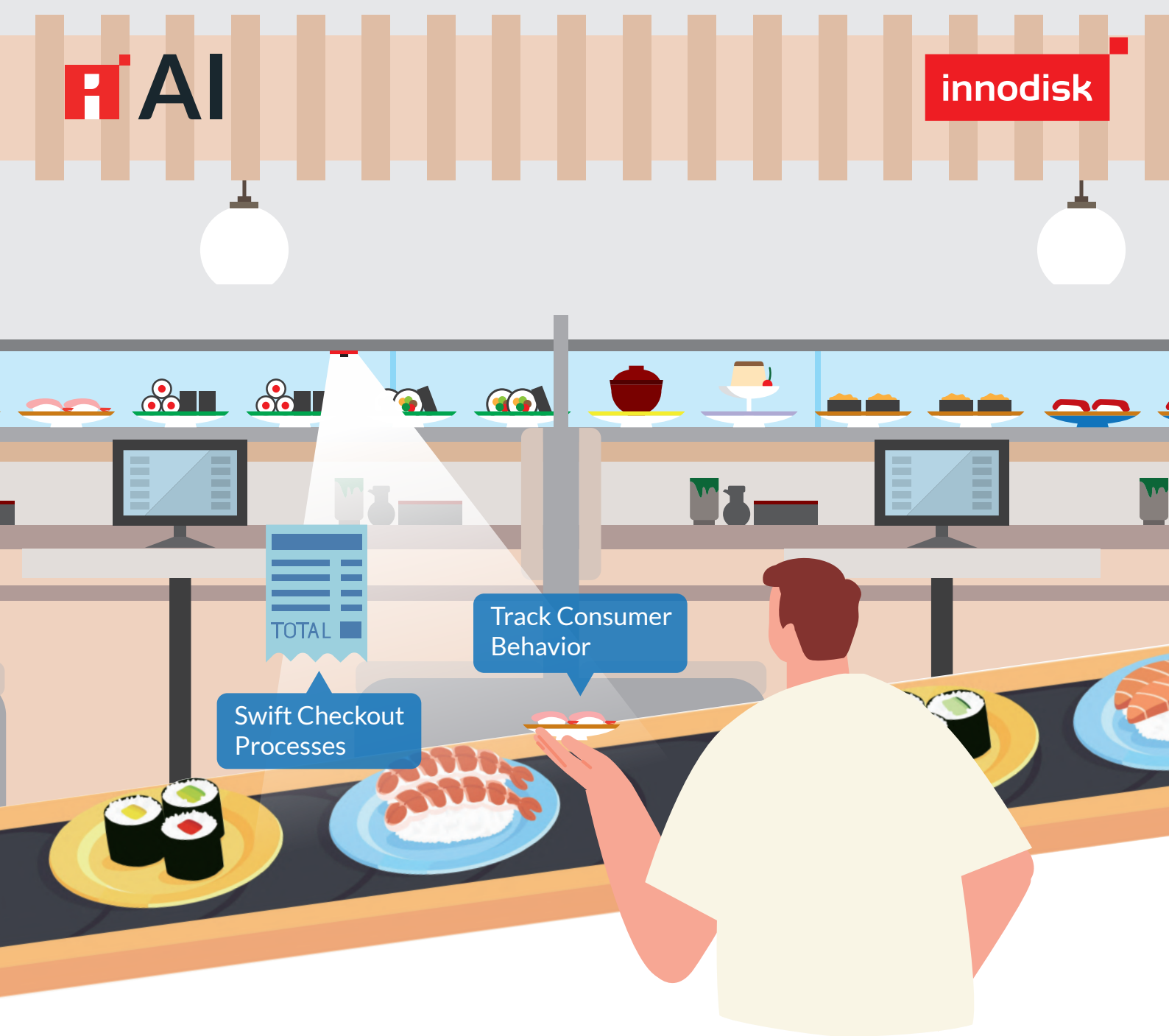


AI

innodisk



Innodisk AI for Conveyor Belt Restaurants

Conveyor belt restaurants are reshaping the dining landscape, offering customers with a unique and innovative experience. Innodisk partners with MusesAI, leveraging its image recognition technology to monitor customer behavior automatically, track plate usage, and streamline checkouts. These applications boost operational efficiency and bolster food hygiene, instilling confidence in customers and ensuring a worry-free dining experience.

Challenges in Restaurants

Food Safety Issues



Innodisk x MusesAI image recognition technology can analyze the quality and condition of stored food, detecting contamination, spoilage, and defects.

AI-powered tracking of consumer behavior allows for real-time monitoring of plate movement, improving food safety management and inventory control.

Automated Inventory Management



Inefficient Manual Checkouts



The AI system enables automatic counting of dishes taken by each table, eliminating the need for manual checkouts and reducing errors.

Innodisk provides customized camera solutions that ensure high-quality images, allowing for accurate identification and monitoring of food items.

Poor Image Quality

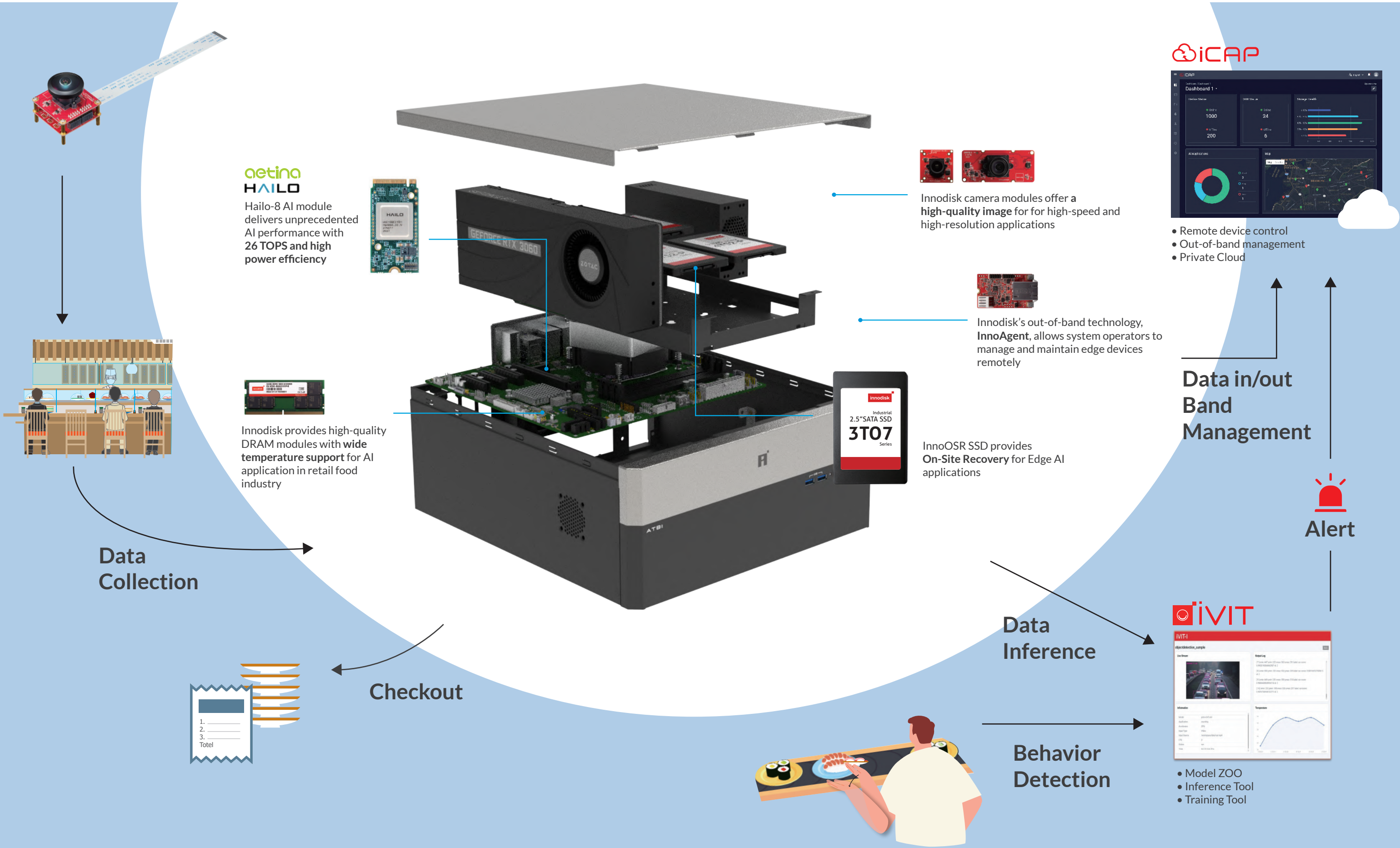


Limited I/O

I/O

InnoEX offers numerous I/O connections, eliminating the need for additional hubs and adapters, and allowing for seamless integration of multiple devices.

Innodisk AI in Retail Food Application Architecture



aetina HAILO
Hailo-8 AI module delivers unprecedented AI performance with 26 TOPS and high power efficiency



Innodisk provides high-quality DRAM modules with wide temperature support for AI application in retail food industry



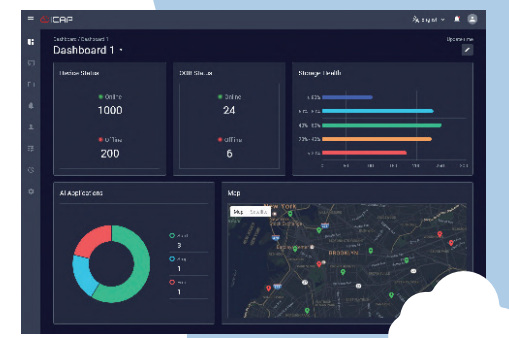
Innodisk camera modules offer a high-quality image for for high-speed and high-resolution applications



Innodisk's out-of-band technology, InnoAgent, allows system operators to manage and maintain edge devices remotely



InnoOSR SSD provides On-Site Recovery for Edge AI applications



- Remote device control
- Out-of-band management
- Private Cloud

Data in/out Band Management



Alert

Data Inference



- Model ZOO
- Inference Tool
- Training Tool

Behavior Detection



Checkout



Data Collection

Use Cases



Automated Plate Tracking

Conveyor belt restaurants can benefit from AI-powered automated plate tracking using Innodisk x MusesAI image recognition technology. This real-time plate tracking enables efficient inventory management, reducing the risk of food shortages and wastage. At the same time, the AI system can automatically count the plates, ensuring a smooth dining experience.

Enhanced Food Safety

Conveyor belt restaurants can enhance food safety with Innodisk x MusesAI image recognition technology. The AI system can detect contamination, spoilage, or defects in the food items, ensuring that only safe food is served. By continuously monitoring the food, the AI helps maintain high hygiene standards and ensures customer trust.



Efficient Checkout Experience

Integrating AI and Innodisk x MusesAI technology in conveyor belt restaurants can streamline the checkout process. By automatically tracking customer behavior and accurately counting the number of plates taken by each table, the AI system reduces errors and saves time. This enables a seamless and efficient checkout process, leading to increasing customer satisfaction and loyalty.

Innodisk AI Edge Solutions

Cloud Management	iCAP			
	Public Cloud / Private Cloud			
AI Training / Inference	iVIT			
	GPU Model ZOO	FPGA Model ZOO	ASIC Model ZOO	3rd Party AI Model
Edge Utility (SW / FW)	iSMART / iTracker / iOPAL / iRAID		OOB Management	Virtual I/O Technology
	BSP/Driver/SDK porting & optimization			
OS Integrations	Microsoft Windows / Linux			
	AIoT Platform (FPGA / GPU / ASIC / CPU)	AIoT Peripheral (Embedded Card & Camera / Virtual I/O)	Flash/DRAM Module	Wi-Fi6/ Media Server Air Sensor CAN
Edge Device				

Innodisk Group Solution

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SSD



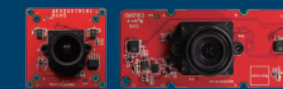
Innodisk SSDs are high-performance storage devices designed for industrial and embedded applications. They offer robustness, reliability, and endurance, with features such as power-loss protection, error correction, and advanced data security.

DRAM



Innodisk DRAM is a high-speed, high-capacity memory module designed for use in a wide range of industrial applications. It features reliable performance, durability, and advanced data protection, making it ideal for harsh environments.

Camera



Innodisk camera modules optimize image quality for different AI applications depending on the needs of customers, in order to meet the demand for high-speed and high-resolution applications in different embedded systems.

Embedded Peripherals



Embedded peripherals like LAN, PoE, CAN bus, DIO, serial port, storage, RAID, and display add functionality to systems. Innodisk aims to create expandable and space-efficient expansion modules to increase flexibility and lower TCO.



AI solutions for AI training, inference, and computing, powered by NVIDIA's GPU and AI accelerators.



Communication and system integration enable fleet management and data collection.



Wireless software defined network and virtualized connectivity products for modern applications.



Ensures safe indoor and outdoor air quality through sophisticated and robust sensors.