AI

innodisk

Hard Hat Alert

Reflective Vest

SOP Operation Alert

Innodisk AI for Workplace Safety

Comprehensive AI solutions with industrial design for workplace safety integrators

In today's fast-paced and competitive world, ensuring workplace safety has become more critical. Workers getting injured or even passing away from occupational and work-related accidents are heard occasionally, emphasizing the need for comprehensive safety measures. Innodisk understands the importance of workplace safety and offers innovative AI solutions to commit to a safe working environment.

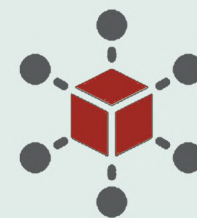# Challenges
in Workplace Applications

Manual inspections often result in oversights

Innodisk AI solution guarantees the proper use of personal protective equipment by employees, significantly reducing the occurrence of oversights when compared to manual inspections and ensuring safety.

Difficulties in equipment management and AI model deployment

Factories cover large areas, necessitating the installation of monitoring equipment in various locations. The Innodisk iCAP can monitor hardware information and provide a troubleshooting channel through device rebooting. It also facilitates batch deployment of AI models to connected devices.
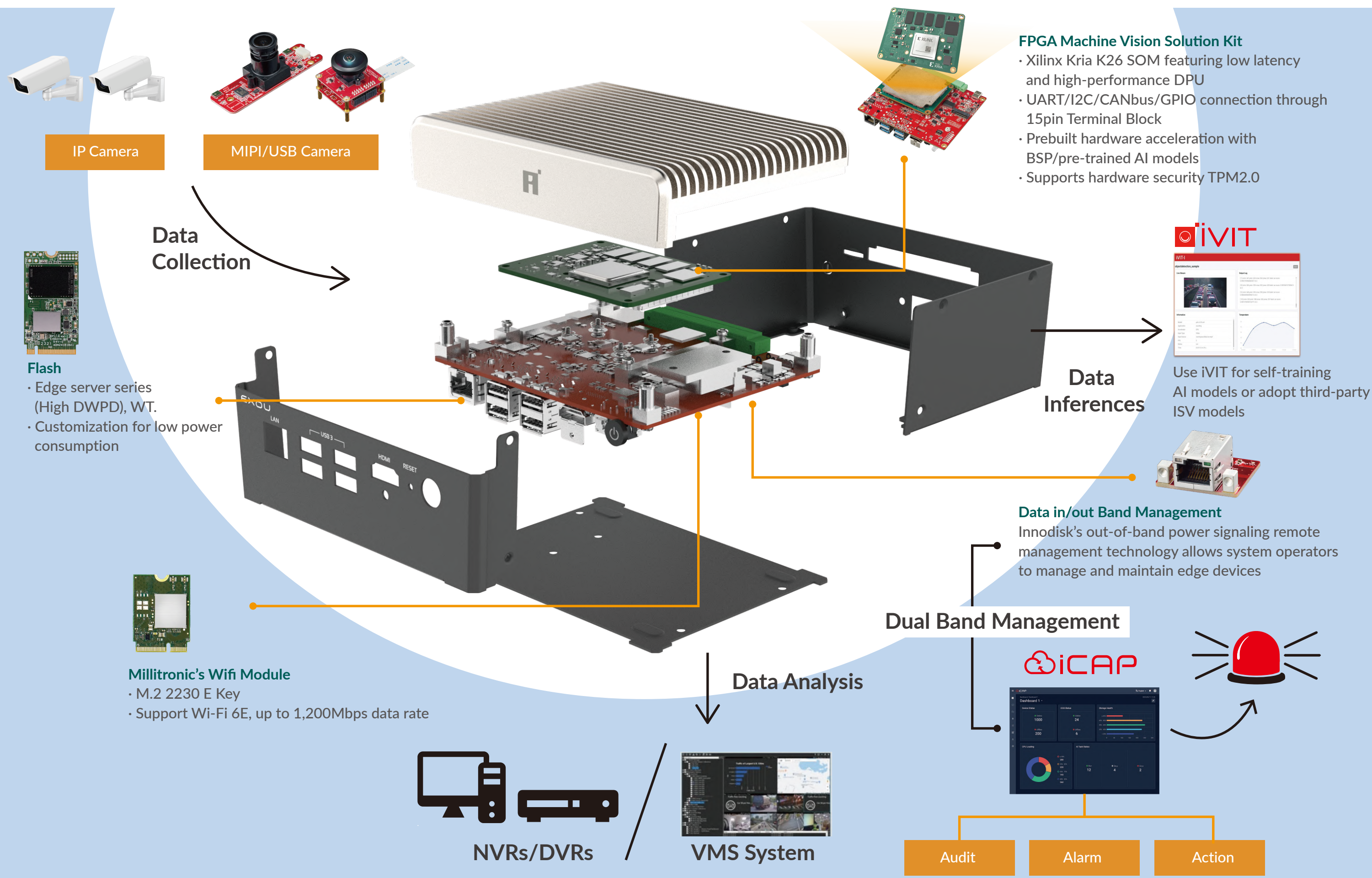
Lack of a one-stop service

Innodisk offers complete solution integration, including software, hardware, and peripherals. Customers can contact through a unified channel, from storage and memory to edge computing and AIoT solutions.

Discover the Power of Innodisk AI
with our Workplace Safety Evaluation Kit

IP Camera

MIPI/USB Camera

FPGA Machine Vision Solution Kit
· Xilinx Kria K26 SOM featuring low latency
  and high-performance DPU
· UART/I2C/CANbus/GPIO connection through
  15pin Terminal Block
· Prebuilt hardware acceleration with
  BSP/pre-trained AI models
· Supports hardware security TPM2.0

Data
Collection

iVIT

Flash
· Edge server series
  (High DWPD), WT.
· Customization for low power
  consumption

Data
Inferences

Use iVIT for self-training
AI models or adopt third-party
ISV models

Data in/out Band Management
Innodisk's out-of-band power signaling remote
management technology allows system operators
to manage and maintain edge devices

Dual Band Management

iCAP

Millitronic's Wifi Module
· M.2 2230 E Key
· Support Wi-Fi 6E, up to 1,200Mbps data rate

Data Analysis

NVRs/DVRs

VMS System

Audit

Alarm

Action

Use Cases for AI in the Workplace

Hazard identification and risk assessment

AI can be used to detect potential hazards in the workplace, such as unsafe conditions or behaviors. By analyzing data from sensors, cameras, and other sources, AI algorithms can identify patterns and anomalies that may indicate a safety risk. The system can alert workers or supervisors to take corrective actions and prevent accidents from occurring.

PPE compliance monitoring

AI can also be used to monitor workers' compliance with Personal Protective Equipment (PPE) requirements, such as wearing safety goggles, hard hats, or earplugs. By analyzing video feeds or images captured by cameras, AI algorithms can identify whether workers adhere to these PPE guidelines. If any deviations are dected, the system can promptly notify workers or supervisors, ensuring overall worker safety.

Innodisk Edge AI Solution

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
OS Integrations	BSP/Driver/SDK porting & optimization			
	Microsoft Windows / Linux			
Edge Device	AIoT Platform (FPGA / GPU / ASIC / CPU)	AIoT Peripheral (Embedded Card & Camera / Virtual I/O)	Flash/DRAM Module	Wi-Fi6/ Media Server Air Sensor CAN

Innodisk Group Solution

SSD	DRAM	Camera	Embedded Peripherals
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.	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.	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 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.
aetina	antzer	MILLITRONIC	sysinno
Edge AI solutions tailored for AI training, AI inference, and AI computing powered by highly reputable GPU and AI accelerators from NVIDIA.	Communication and system integration for in-vehicle applications enable seamless fleet management and data collection.	Highly reliable wireless software defined network and virtualized connectivity products for Metaverse, Neural Network, and AI computing applications.	Ensuring safe indoor and outdoor air quality through sophisticated and robust sensors.

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