

Innodisk AI for Electric Vehicle Charging

Innodisk, a leading AloT solutions provider, has developed a powerful AloT platform that integrates artificial intelligence and robust hardware to revolutionize the electric vehicle (EV) charging industry. With the increasing adoption of electric vehicles worldwide, there is a growing need for efficient and intelligent EV charging solutions. Innodisk's Al electic vehicle charging network management system provides a comprehensive solution to manage charging piles optimally, incorporating features such as suburban area support, efficient maintenance, and number plate recognition.

Challenges

in EV Charging Applications



Parking violation detection

Innodisk Al's machine vision solution kit can detect EV parking violations, such as non-electric cars occupying charging spots.



Instant remote management

Innodisk's InnoAgent is an industrial module that allows out-of-band remote systems management, even if they have crashed or are entirely offline.



Environmental detection

Sysinno's iAeris air quality monitors can effectively detect various air quality factors, including PM2.5, PM10, TVOC, CO2, CO, HCHO, O3, NO2, SO2, temperature, and humidity.



Discover the Power of Innodisk Al Solution



Instant status





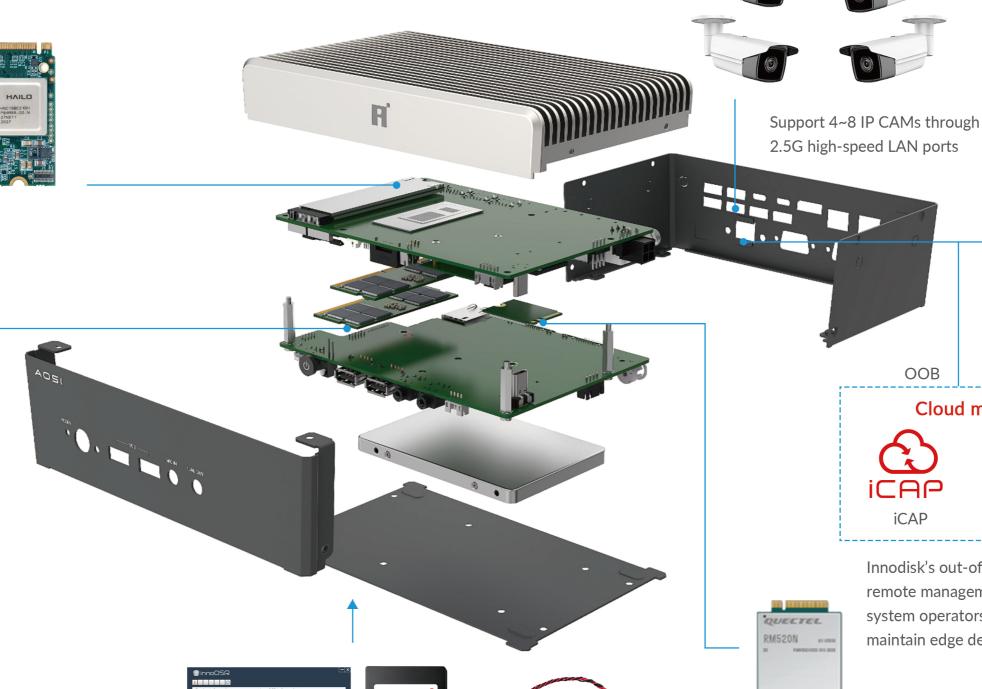


Hailo-8 AI module delivers unprecedented AI performance with 26 TOPS and high power efficiency





Innodisk provides high quality DDR5 with 100% original grade IC and anti-sulfration for AI outdoor applications



In-Band



ICAP

iCAP

OOB

OOB Reboot

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

5G/LTE/GPS module support for non-networking area

Straightforward Back-up

InnoOSR SSD provides Remote OS Recovery function for Edge AI application

2.5" SATA SSD InnoOSR

One click Recovery

Use Cases for AI in EV Charging



Efficient management of EV charging networks

Innodisk's AloT platform and edge computing capabilities can monitor and manage EV charging networks in real-time, optimizing charging piles' operation and improving network efficiency.

Number plate recognition and charger status update

Innodisk's solution can recognize number plates and provide instant status updates of the charger to the EV owner, ensuring smooth and reliable charging experiences.





Smart maintenance and repair of EV charging infrastructure

Innodisk's technology can detect the life cycle of SSD/DRAM, prepare new components in advance for repair, and provide remote OS recovery function for Edge AI applications, reducing downtime and saving maintenance costs.

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Innodisk Edge AI Solution

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

Innodisk Group Solution

DRAM



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.



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.



MILLITRONIC

sysinno



Edge AI solutions tailored for Al training, Al inference, and Al 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 Al computing applications.





outdoor air quality through sophisticated and robust sensors.

