Corporate Introduction

Innodisk Corporation

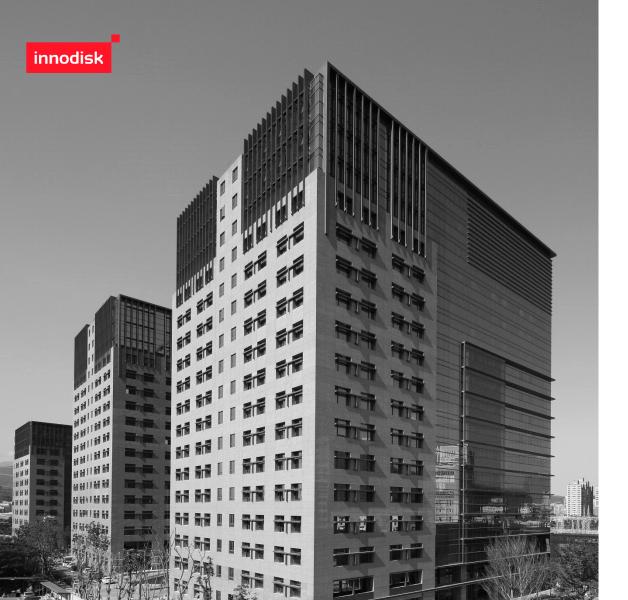












Founded 2005

Headquarter Taipei, Taiwan

Patents 82

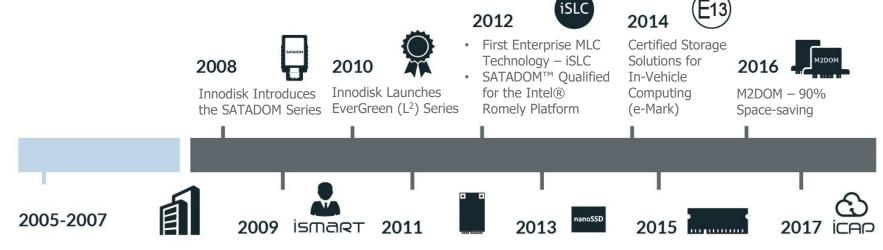
Employees 568

Branches China, Japan,

Netherlands, USA

12 Years of Innodisk





- Established a Strong Presence in the Industrial and Embedded Market
- Innodisk Launches InnoRobust™ for Military Applications
- iSMART First SSD Monitoring Software

The First Miniature PCIe Storage Device in the Industry

First BGA package Micro SSD – Nano SSD

- Unveils World's
 Fastest 16GB
 DDR3 Memory for
 Atom Servers
- Innodisk
 SATADOMs are
 Chosen as New
 Boot-up Device for
 EVO:RAIL by
 VMWare®
- World's Smallest Embedded RAID 1 Solution
- iCAP™ Cloudbased Storage Management



Worldwide Operations



Business Coverage





mPCIe Storage / Communication / Display Modules / RAID Cards









Embedded / Wide Temp./ Coating / Server













Flash

SATADOM / ServerDOM™ /M.2



Mr. Loop

WiGig Wireless Communications







Antzer Tech

In-vehicle Communications





Accelstor

All Flash Array







Aetina

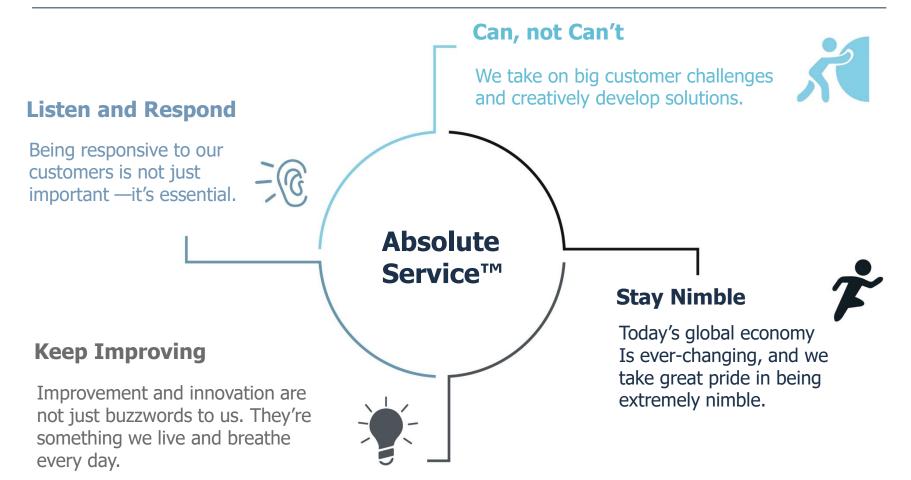
Industrial Graphic Cards





Company Culture and Values





Our Vision



Absolute Integration™

Absolute Integration[™] is our envisioned path that moves toward a more interconnected world.

"To us, integration is not merely the combination of hardware, software and firmware; it is a philosophy that assimilates all relevant elements to create an optimal solution."

Our Main Pillars





Technical Aptitude by Design

Our advantage lies in our portfolio of hardware, software and firmware technology and how we arrange these basic building blocks into new works of innovation.

Deeply Rooted in the Market

The awareness of the pit falls and opportunities of vertical markets allow us to view the full picture when crafting the optimal solution.





We Are in It Together

To reach the optimal solution, working together with our partner from day one is paramount. The best possible outcome can be managed by developing solutions jointly.









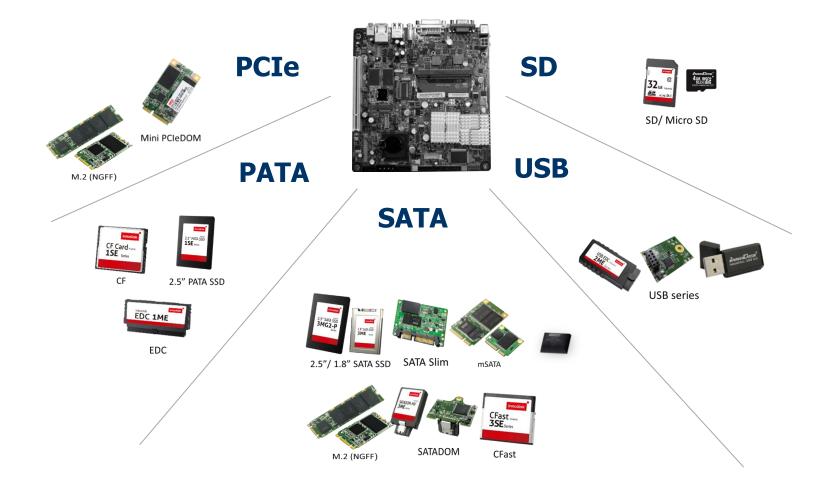
Applications and Technologies





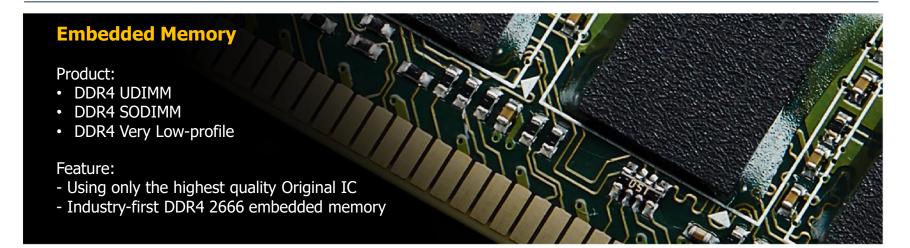
Flash – Complete Storage Solutions





DRAM – Purpose-built Memory Modules



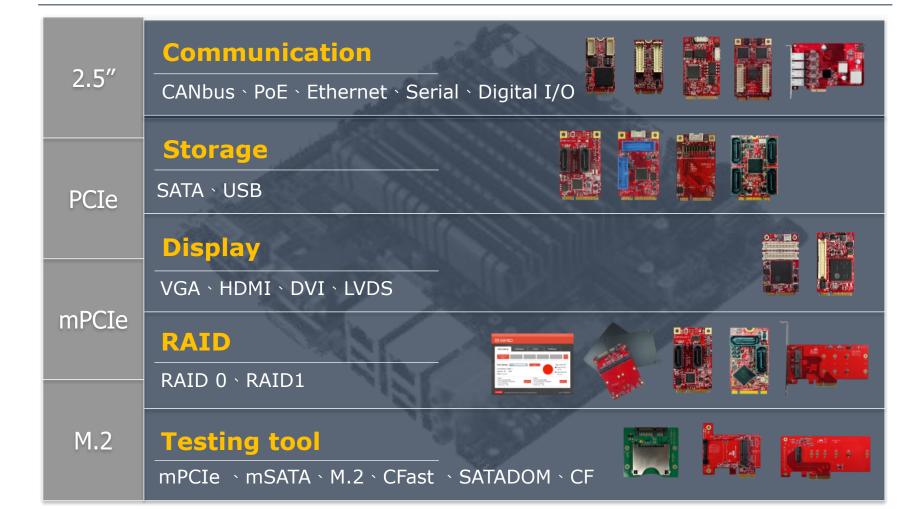






EP – Complete I/O Expansion Solution





Software Implementation



iService[™] is a dedicated software service for industrial systems









Windows & Linux

Customized and validated O.S. image for various platforms and systems

iSmart™ & iCover™

Turn-key solutions that delivers robust, high-quality, customized applications

Platform Monitor

A Cloud management tool that allows the user to easily monitor the system

Partnership and Alliance







2017

Microsoft officially supports SATADOM™ Boot-up Drive for Windows Server.

2016

Officially became Intel® IoT Solution Partner

mware[®]

Forbes

2016

SATADOM™ is qualified on the EVO:Rail platform

2016

Innodisk was listed as one of Asia's 200 Best Companies Under A Billion in Forbes.



A More Reliable Commute

Monitoring and Wi-Fi Systems for Railroad Application



OVERVIEW

A European rail operator was looking to integrate a new monitoring and Wi-Fi system onboard, with the goal of enhancing customer experience and safety, as well as strengthening connectivity.





CHALLENGES

- Limited and constricted space
- Large capacity requirements
- High number of communication nodes
- Wide temperature variations and electromagnetic interference

SOLUTIONS

- RAID with dual SSD for high storage capacities and increased fault tolerance
- Tested and certified to withstand surge and HiPOT occurrences
- Customized Linux software and data recovery system

RESULTS

With the implementation of this monitoring and Wi-Fi system, the operator can ensure customer satisfaction as well as a stable and reliable connectivity. The operator is fully equipped to handle unforeseen situations and can ensure the highest degree of onboard safety.

Providing a Fail-safe Inspection

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Solution for Machine Vision Devices in the Pharmaceutical Industry

OVERVIEW

Innodisk's software and hardware-based RAID solution provided the customer with the performance and data integrity necessary to run sophisticated measurement and inspection instruments.





CHALLENGES

- System failure can lead to errors in marked samples or incorrect doses passing through inspection
- Replacing faulty devices can lead to costly downtime
- The customer needed a way to monitor their device's status to assure timely maintenance

SOLUTIONS

- Mirrored SSDs in RAID 1 configuration allowing the system to run at 100% capacity even if one SSD fails
- In case of device failure, the faulty SSD can quickly be swapped and RAID will automatically build
- iRAID allows the customer to easily keep tabs on the status of each device

RESULTS

With no effective way of monitoring their storage device status, it was hard to predict and prevent system failure. The Innodisk RAID solution offered an easily monitored system with in-built contingency measures that addressed all the issues faced by the client.

Clearing the Way for a Safe Delivery

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Transportation of Hazardous Materials and Fleet Management

OVERVIEW

A Chinese truck manufacturer approached Innodisk for a data recording solution for vehicles transporting hazardous materials. They were in need of a way to reliably store data as well as a way to connect to the onboard CANbus system to gather data from operations. This data would then be sent real-time to a centralized location for fleet management.



CHALLENGES

- The customer needed to monitor and handle issues in a timely manner
- Secure data recording of the whole journey from start to destination
- The system had to be able to handle route planning and management
- Harsh operating conditions

SOLUTIONS

- Modules providing fast and rugged network performance
- Secure and fast data writing speeds
- Modules designed and tested for extreme thermal conditions
- All modules designed to withstand tough mechanical stress

RESULTS

Innodisk's solution allowed for effective planning, and ensured correct driver behavior. The solution helped streamline the transport process and increase productivity, saving costs for the operator, and more importantly, lowering the associated risks of transporting hazardous materials, creating an overall safer environment for the handling of hazardous materials.

Facilitating Rapid Data Exchange

High-Performance Memory for Network Probe



OVERVIEW

Innodisk's 2400MT/s Very Low-profile (VLP) DRAM provided a perfect solution for a Chinese manufacturer of network probes. These network probes handle large amount of data, so reliable memory speed and capacity are imperative.



CHALLENGES

- Network probes require both high-speed and high-capacity memory
- Low error tolerance
- Heat dispersal issues due to the small-sized 1U cabinet

SOLUTIONS

- 8GB 2400MT/s DDR4 provides both the needed speed and capacity
- Implemented Error Correcting Code (ECC) ensures minimal errors
- The low profile of the VLP DIMM ensures optimized airflow and efficient heat dispersal

RESULTS

With Innodisk 8GB 2400MT/s VLP DIMM installed, the customer found that all requirements had been fully met. This solution ensured that that the network probe could efficiently handle large data streams with no performance issues and efficient heat dispersal.

Eliminating Frame Loss





OVERVIEW

Modern surveillance systems handle a lot more than just recording. As computational power grows, smart solutions such as facial recognition and data analytics require fast speeds and optimized firmware. An American partner of Innodisk was struggling with frame loss during data recording, and turned to Innodisk for help. After some deliberation, Innodisk could identify the problem and propose a viable solution.



CHALLENGES

- The old surveillance setup exhibited regular frame loss during recording
- The customer needed assistance in locating the source of the frame loss
- A new customized solution was needed to secure stable video recording

SOLUTIONS

- Innodisk identified the problem to be interruptions from firmware operations
- The firmware was optimized and altered according to the requirements, effectively solving the frame loss issues

RESULTS

Innodisk helped the customer identify and rectify the original problem. Through innovative firmware optimization, the customer could deliver a reliable, high-level surveillance solution without worrying about loss of recording quality.

Ultra-Small and Secure Logging

Small Form Factor Storage for Network Logging Applications



OVERVIEW

An American networking company approached Innodisk for a network logging storage solution. The client needed a small form factor, highly secure and customized device to handle the specific requirements of the networking environment.



CHALLENGES

- Strict data erasure requirements
- The SATA signal needed to be customized for the clients platform
- Constricted space

SOLUTIONS

- ATA security and quick erase functions with accompanying software
- Tailor-made firmware for enhanced system reliability/ compatibility
- Ultra-small M.2 2242 form factor

RESULTS

After consulting with the client, Innodisk could provide a solution that met all of the client's requirements. After implementing the customized M.2 SSD, the network logging solution offered both security and compatibility.

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