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Titanium
IoT Solutions

DFI

Revolutionizing Vending Machine Operations with DFI's EC700-ADN Embedded Solution

Overview

In the competitive world of vending machine operations, efficiency and reliability are paramount. When one of our esteemed customers, a leading vending machine operator with a nationwide presence, faced challenges with mechanical vibration, real-time application requirements, and high management costs, they turned to DFI for a solution.



Industry: **Smart Retail**
Application: **HMI and Kiosk**
Solution: **DFI EC700-ADN
With OOB Remote
Management**

Pain Points

Thin and light industrial computer refined for the new generation of vending machines: EC700-ADN

The customer's existing vending machines were plagued by mechanical vibration issues, leading to frequent disruptions in operations and a decline in customer satisfaction. Additionally, their outdated computing systems struggled to meet the demands of real-time applications, hindering their ability to provide timely services. Moreover, the high management costs associated with manual maintenance and troubleshooting were eating into their profitability.

EC700-ADN KEY FEATURES

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On Board OOB Built-in

Hardware status remote control&monitor, BIOS remote setup/update, OS remote recovery, Open-SSH/ UEFI Shell/In-Band Windows support



On Board DDR5 & eMMC Support

LPDDR5 4800 MHz memory down eMMC module - Easy maintenance



Slim and Fanless

Slim and fanless design for limited-space condition



Up to Quad Display Support

Support via VGA/HDMI/USB-C

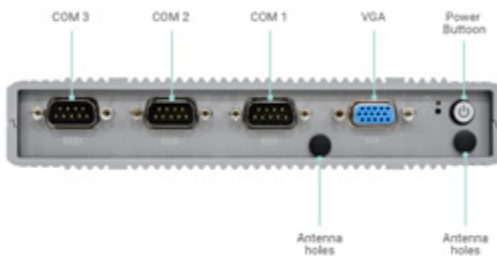


Intel TCC within the system

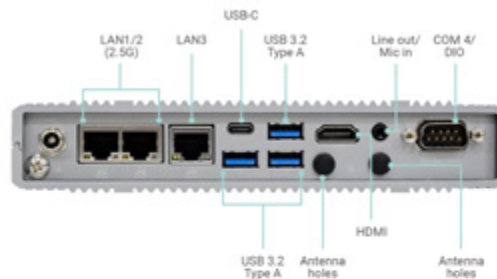
Supported by X series CPU and TSN standard up to 2.5GbE.

PANEL

System Height = 33mm

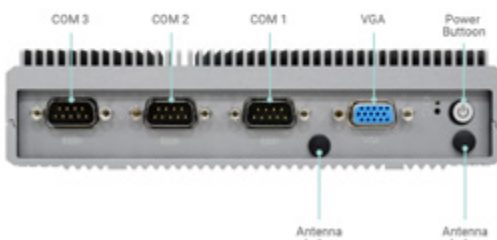


Front View

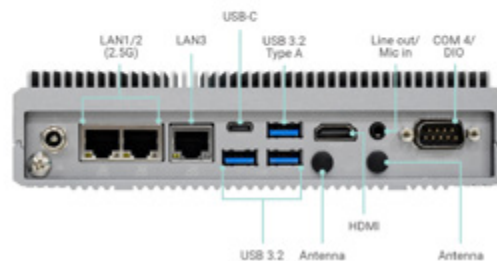


Rear View

System Height = 43mm



Front View



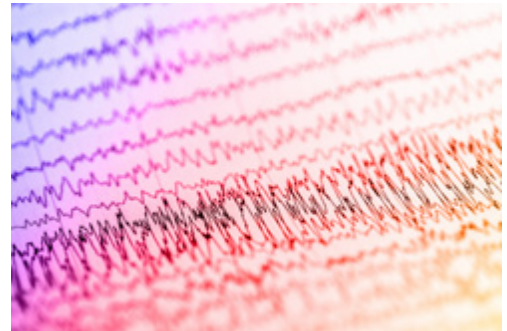
Rear View

The Initial Situation

Enter DFI's EC700-ADN embedded solution – a game-changer in the vending machine industry. Designed specifically to address the pain points of vending machine operators, the EC700-ADN offered unparalleled durability, real-time performance, and remote management capabilities.

Mechanical Vibration Resistance:

Equipped with a fanless design, the EC700-ADN was built to withstand the rigors of vending machine environments, including mechanical vibrations. Its rugged construction ensured stable and reliable operation, eliminating the disruptions caused by vibration-induced failures.



Real-time Application Support:

Powered by advanced processing capabilities, including Intel® Processor N series/Atom® Processor X7000 series processors, the EC700-ADN delivered the computing power required for real-time applications. Whether it was processing transactions, monitoring inventory levels, or updating product information, the EC700-ADN excelled in delivering swift and responsive performance, ensuring seamless customer experiences.

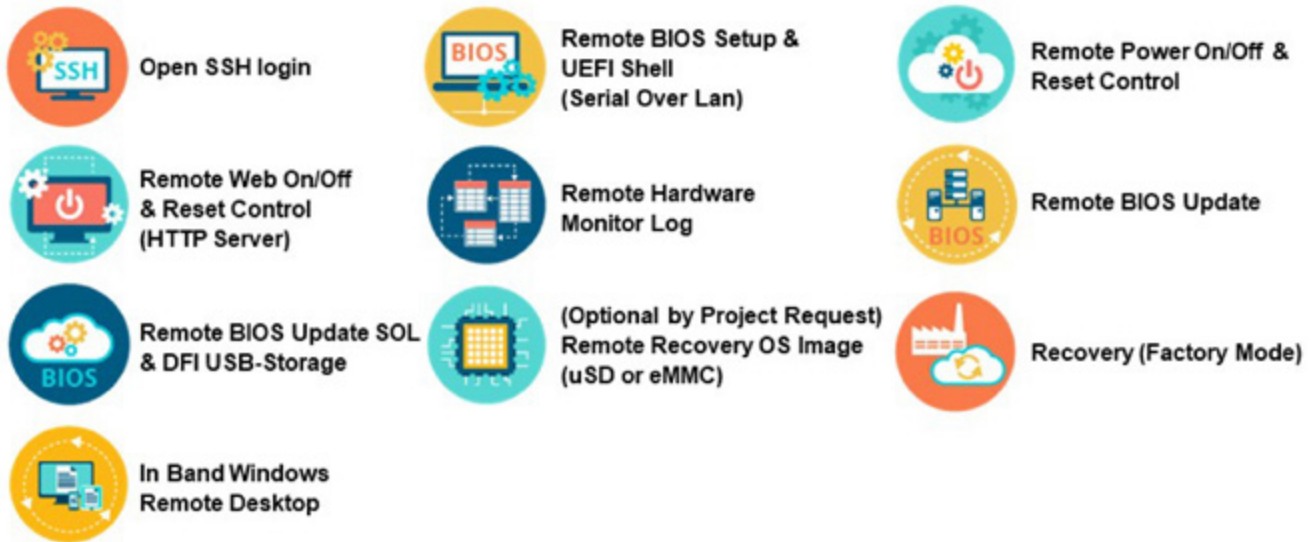


Remote Troubleshooting and Management for Cost Reduction:

The standout feature of the EC700-ADN was its built-in out-of-band (OOB) management system. This innovative solution allowed the customer to remotely monitor, diagnose, and manage their vending machines from a centralized location. With the ability to perform tasks such as remote power on/off, BIOS operations, and system updates, the EC700-ADN significantly reduced management costs and minimized downtime, ultimately boosting operational efficiency and profitability.



Remote Management: DFI OOB Key Features



Result

By implementing DFI's EC700-ADN embedded solution, our customer experienced a transformative shift in their vending machine operations. Mechanical vibration issues became a thing of the past, thanks to the EC700-ADN's robust design. Real-time applications ran seamlessly, enhancing customer satisfaction and loyalty.

Moreover, the OOB remote management capabilities of the EC700-ADN led to substantial cost savings, allowing the customer to streamline their operations and focus on driving business growth.

In conclusion, DFI's EC700-ADN embedded solution proved to be the ideal choice for our customer, offering unparalleled durability, real-time performance, and remote management capabilities. With DFI as their trusted partner, our customer was able to overcome their pain points and achieve new heights of success in the competitive vending machine market.



DFI

Founded in 1981, DFI is a global leading provider of high-performance computing technology across multiple embedded industries. With its innovative design and premium quality management system, DFI's industrial-grade solutions enable customers to optimize their equipment and ensure high reliability, long-term life cycle, and 24/7 durability in a breadth of markets including factory automation, medical, gaming, transportation, smart energy, defense, and intelligent retail.

www.dfi.com / inquiry@dfi.com / +886 (2) 2697-2986