



# Case Study

## Nursing Station Digital Whiteboard

## Enhancing Nursing Station Efficiency with Digital Whiteboards

In today's rapidly evolving healthcare landscape, efficiency and communication are paramount in providing high-quality patient care. Digital whiteboards are transforming nursing stations by revolutionizing communication, streamlining task management, facilitating collaboration, and improving overall efficiency. Unlike traditional whiteboards that require manual updates and are prone to errors, digital whiteboards automatically synchronize with electronic health records (EHR) and other hospital systems.

### Challenges

The customer, a premier provider of comprehensive healthcare solutions in Taiwan, was looking for a reliable OPS-compliant 4K digital signage player for its digital whiteboard used in nursing stations, aiming to enhance operational efficiency and ensure timely patient management. This OPS digital signage player needed to feature ultra-quiet operation with a noise level below 30dB and be manufactured in Taiwan to adhere to rigorous public hospital standards.

### Main Requirements

- Intel® Open Pluggable Specification (OPS compliance)
- Must be manufactured in Taiwan to meet public hospital standards
- Ultra-quiet operation with a low noise level below 30dB
- Industrial-grade design for 24/7 operation
- Complete CE/FCC safety certifications
- Compact design for restricted space
- Wi-Fi connectivity for real-time updates of patient information and tasks

### Customized 4K OPS Digital Signage Player for Nursing Station Digital Whiteboard

To build a 4K interactive whiteboard for nursing stations, Axiomtek has proposed a customized Open Pluggable Specification digital signage player powered by the Intel® Core™ i3-10300T processor. Compliant with the Intel® OPS architecture, this modular signage player offers high compatibility and simplifies installation, maintenance, and deployment, resulting in a lower total cost of



ownership. Its ultra-quiet fan design maintains noise levels below 30dB, creating a conducive environment for both patients and healthcare staff. It also has one M.2 Key M 2280 supporting NVMe interface for storage and one M.2 Key E 2230 slot for Wi-Fi and Bluetooth. This smart digital signage player also comes with Trusted Platform Module (TPM) 2.0 that can provide security and privacy

benefits. Additionally, its sleek design enhances the aesthetic appeal of your digital signage setup.

## Application

### 4K Interactive Whiteboard for Nursing Station

Integrating a 4K interactive whiteboard with an OPS digital signage player can significantly enhance the efficiency of nursing stations and optimize patient management. Axiomtek's OPS signage products are highly customizable, featuring versatile interfaces and built-in flexibility that enable customers to select the most essential features for their needs. In addition, Axiomtek's experienced design services team offers our system integrators and ODM/OEM customers personalized design and manufacturing services, providing easy product development and deployment to our customers. We believe that an open pluggable signage module with its simplified installation, maintenance and upgrade can greatly improve the efficiency of information transmission as well as making every minute and second more valuable.

## System Configurations

- Built-in high-performance Intel® Core™ i3-10300T processor
- 8GB DDR4-2666 SO-DIMM memory onboard
- 1 M.2 Key M 2280 for NVMe storage
- Low noise design and CE/FCC certificated
- Wi-Fi kit support
- W11 IoT operating system



## Why Axiomtek

Utilizing the OPS signage player to create a digital whiteboard not only enhances collaboration and communication but also facilitates future upgrades and maintenance. Axiomtek's OPS signage player stands out with features designed to significantly enhance digital whiteboard operations. Our experienced design services team can deliver all that you need from solution conceptual design to deployment.

"We have been thoroughly impressed with the performance and reliability of Axiomtek's digital signage player. The robust design and powerful performance have perfectly met our needs for integration into hospital nursing stations. Axiomtek's excellent customer service, strong engineer support, and rapid responses have been crucial to our success. We are delighted with the quality and reliability of Axiomtek," said the Purchasing Manager of the customer.

## About Axiomtek Co., Ltd.

Axiomtek has experienced extraordinary growth in the past 30 years because of our people, our years of learning which resulted in our tremendous industry experience, and our desire to deliver well-rounded, easy-to-integrate solutions to our customers. These factors have influenced us to invest in a growing team of engineers including software, hardware, firmware, and application engineers. For the next few decades, our success will be determined by our ability to lead with unique technologies for AIoT and serve our key markets with innovatively-designed solution packages of hardware and software – coupled with unmatched engineering and value-added services that will help lessen the challenges faced by our systems integrator, OEM and ODM customers and prospects alike. We will continue to enlist more technology partners and increase collaborations with our growing ecosystem who are leaders in their fields. With such alliances, we will create synergy and better deliver solutions, value, and the expertise our customers need.

Axiomtek is a Member of the Intel IoT® Solutions Alliance. A global ecosystem of more than 800 industry leaders, the Alliance offers its members unique access to Intel technology, expertise, and go-to-market support—accelerating the deployment of best-in-class solutions.