Case Study

Video Conferencing Solution

The online meeting is necessary in hybrid work

As hybrid work has been becoming more common, the need for online meetings tremendously increases. But in addition to hearing and seeing each other on the computer screen, the scribbles and drawings on the whiteboard also have to be moved online to achieve better understanding in the meeting. As a result, professional video conferencing solutions require more advanced hardware and software integration to provide a seamless user experience.

Challenges

The customer, dynabook, was looking for a video conferencing solution to enable remote teams to participate seamlessly. It requires a cost-effective Open Pluggable Specification (OPS) compliant digital signage player to integrate with its intelligent meeting platform, dynaConnect, to provide computing capability for functionalities such as real-time whiteboard interaction. What's more, powerful performance, 4K resolution, and wireless connectivity are also essential to support its real-time meeting.

Main Requirements

- Intel® Open Pluggable Specification (OPS compliance)
- Supports 4K displays at 60Hz resolution
- Screen sharing function with multi-screen extension
- Rich I/O for multiple screens, camera, microphone, and speaker
- Supports wireless connectivity
- Supports intelligent meeting platform from dynaConnect

About dynabook
dynabook Inc., as a wholly-owned subsidiary of Sharp Corporation, provides secure, easy-to-deploy, and powerful cloud conference platform solutions for enterprises and institutions.
Visit the website

The OPS digital signage player provides computing power and rich I/O

Axiomtek has proposed its OPS520, an OPS digital signage player powered by the 11th/10th gen Intel® Core™ i7/i5/i3 and Celeron® processors. The smart digital signage module has two DDR4-2933 SO-DIMMs for up to 64GB of system memory. With enhanced multimedia performance, the OPS520 is well-suited for a wide range of digital signage applications in retail, transport, entertainment, education, and more. For great connectivity, it offers one USB 3.2, one USB Type C, two USB 2.0, one GbE LAN, one DisplayPort 1.4, one HDMI 2.0 with 4K UHD, one audio jack and two antenna openings. The OPS520 can be easily connected to an OPS-compliant display for swift plug-and-play. It also comes with 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 which can provide security and privacy.

Application
The OPS520 empowers the conferencing solution with useful functionalities

The two OPS520 players were installed in the OPS-compliant interactive whiteboards to help the customer set up the meeting room for video conferences. One connects to a 75-inch interactive whiteboard, and the other one supports four 86-inch interactive whiteboards through an HDMI matrix switch. Integrated with the dynaConnect platform, the OPS520 players enable the solution to

OPS520
Open Pluggable
Specification (OPS)
Digital Signage Player

run Windows 10 Pro and the users can easily have a video conference with a variety of features.

The dynaConnect video conferencing solution from dynabook which was designed for business use provides powerful functionalities to enable smooth communication online. The function that sets it apart is the multi-party whiteboard collaboration. During the meeting, the user can scribble down keywords or draw mind maps while others in the online meeting can see them simultaneously. Therefore, providing the display computing capability is necessary to run the software for complete integration. To secure classified information presented in the meeting, the one-stop remote meeting solution supports data encryption and file storage.

System Configurations of the OPS520

- Intel® Core™ i5-10400T processor onboard (code name: Comet Lake)
- Two DDR4-2933 SO-DIMM for up to 64GB of memory
- One M.2 Key M 2280 for NVMe storage
- One M.2 Key E 2230 for Wi-Fi/BT connection
- USB 3.2 Gen2 supported
- Supports Intel vPro® Platform (Intel® Q570)
- Supports Trusted Platform Module (TPM 2.0)

- Supports HD webcam
- Optional Wi-Fi kit
- Windows 10 Pro 64-bit operating system

*For detailed specifications, please visit www.axiomtek.com or go to Products > Systems & Platforms >Digital Signage Player for > OPS Digital Signage Player for OPS520

Why Axiomtek

As one of the leaders in the IPC industry, Axiomtek not only provides high-power systems but also listens to customers and recommends the products that best meet the demands of the solutions to create win-win cooperation that creates the most business opportunities.

"Proficient, reliable, and quick-responding are the best words to describe Axiomtek. Not only does it have rich experiences in digital signage applications, but also has efficient technical support and great customer service. Its OPS520 is capable of addressing the customer's multi-screen extension needs and helps dynaConnect complete the video conferencing solution. We are glad to work with Axiomtek and also looking forward to future cooperation," said Alax Wang, Project Manager of dynabook.

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.