WHITE PAPER

IBASE Advances Video Wall Technology

SignaturePro 24-Port Video Wall Signage Player offers breakthrough capability powered by Intel

By Richard Slawsky | Contributing writer, Digital Signage Today

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IBASE Technology, a leading global provider of embedded systems and innovative digital signage players, is implementing Intel® Arria® 10 FPGA modules along with Intel® vPro™ Core processors and Intel® Media Accelerator Reference Software (MARS) technology in IBASE SignaturePro SP-63E multi-port video wall signage player.

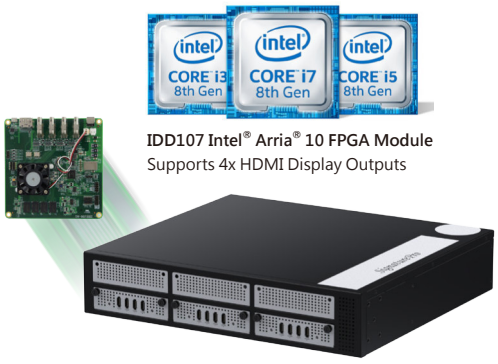
The integrated processor platform allows SP-63E to offer optimal performance and cost-optimized video wall solutions, driving up to 24 HDMI displays built with hardware EDID emulation, last frame capture and display monitoring functions, a major breakthrough among the industry.

Far more superior than two-port or four-port HDMI multi-display signage players in the market today, the new SignaturePro SP-63E leverages Intel platform and software technology to enable optimized video streaming and multi-display expansion to drive up to 24 screens. The standard model features Intel® HD Graphics P630 and up to 12 HDMI displays support. It can support a maximum of 16 displays with an additional MXM GTX 1080 card or 24 displays when an MXM E9550 GPU card is used instead. The platform can also integrate with Intel® Distribution of OpenVINO™ toolkit allowing future expansion with analytics, using neural network inference and deep learning technology for advanced AI workload.

New technologies address growing demand

To help meet the demand for new and improved video wall hardware, technology provider IBASE recently unveiled its IBASE SignaturePro SP-63E multi-port video wall signage player. The 8th Gen Intel® Core™ processor-based SP-63E offers optimal performance and cost-effective video wall solutions, driving up to 24 HDMI displays.

The SP-63E also incorporates features lacking in nearly every other splitter or high-end GPU card solution. Those features include:



iSMART Technology

iSMART provides functionalities for various applications, such as automatic power on/off scheduling for power saving, power resume, low temperature guardian and intelligent system recovery allowing the system to restore the factory default state in the event of a system software crash of software, reducing maintenance costs. The proprietary technology helps the system boot up even under extreme low temperature conditions and allows the MCU to restart it after a power failure.

Observer Technology

IBASE Observer supports the network version of Windows/Linux based utility “Observer,” a hardware monitoring utility capable of monitoring the temperature sensors, voltages, fan speeds, monitoring the list of dependents subject to a hardware system. Once there is a change in any state of the hardware system, for example if the actual temperature of the processor exceeding the limit a deployer sets, the utility keeps a log of the change.

Display status monitoring and EDID emulation functions

The IBASE SignaturePro SP-63E is equipped with a hardware EDID (Extended Display Identification Data) emulation feature that allows users to regularly check on-site status and to solve any display and cable issues that may arise. That feature prevents display problems caused by disconnection of cables, unrecognized displays or power interruptions.

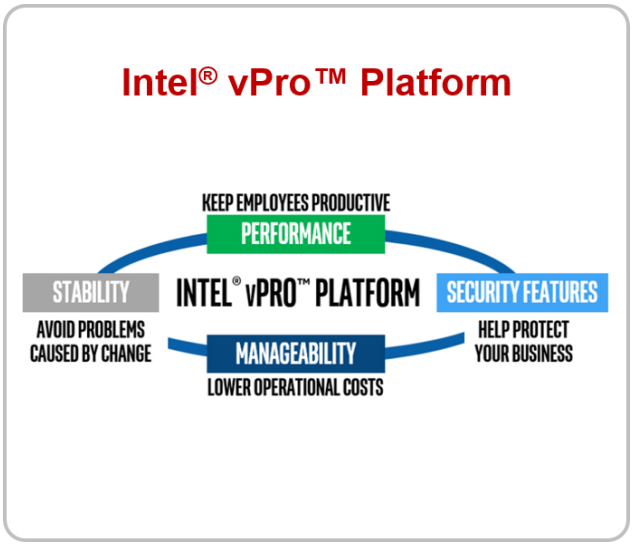
Keep last frame function

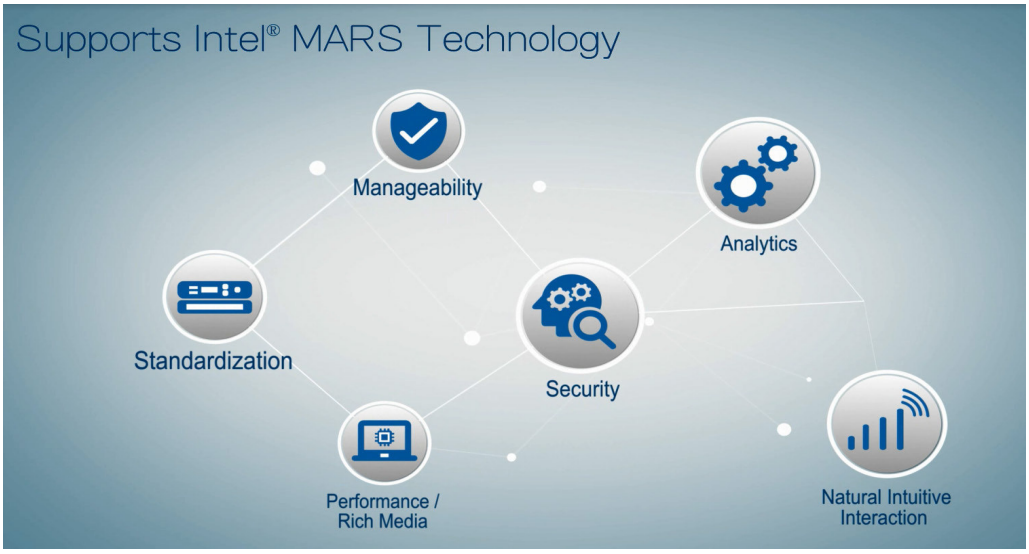
The integrated FPGA modules, which are powered independently, capture and display the last video frame in case of system malfunction. If there's a system issue with a restaurant's digital menu boards, for example, the screens will display the last video frame instead of a blank screen.

A pure Intel solution

In addition to these features, the SP-63E is the first pure Intel mutiport output video wall signage player solution, incorporating their 8th Gen Intel Core processor and Intel FPGA Arria 10 technology. Previous solutions are primarily based on pure AMD or Intel + AMD components.

The SP-63E leverages the Intel vPro Platform and Intel MARS technologies. Both technologies boost overall performance, keeping employees productive. They help to protect your business with advanced security features. Their standardization also helps to provide a stable core, helping users avoid problems caused by change. The MARS software also provides in-depth analytics,to help users maximize the system's usage.





SP-63E Video Wall Signage Player

8th Gen Intel® Core™ Desktop Processor-based Signage Player

with Intel® FPGA Arria® 10 FPGA

Features

- Perfect for displaying 8K/12K video wall or menu board contents
- Supports 8th Generation Intel® Core™ desktop processors
- Built-in Intel® Arria® 10 FPGA modules
- Intel HD Graphics P630: 12x HDMI (Max.) display outputs
- With MXM GTX 1080: 16x HDMI (Max.) display outputs
- With MXM E9550: 24x HDMI (Max.) display outputs
- Rugged design with Intel® vPro™ and MARS technologies
- iSMART intelligent energy-saving & Observer remote monitoring technologies
- Last frame capture and display monitoring functions

Source: IBASE Technology

About the sponsor:

IBASE Technology is a reputable manufacturer and supplier of digital signage players. Since it was established in 2000, IBASE has been committed to the production of high-quality products, and to the rendering of excellent services. IBASE has a full range of digital signage system products catering across vertical markets including retail, fast food, hospitality, education and financial. Depending on their requirements, customers can choose the models based on performance, number of displays, resolution and ventilation designs. IBASE digital signage players feature advanced remote management that easily refreshes content and increases uptime while lowering costs. For more information, please visit www.ibase.com.tw.