

Putting HDMI on the Line



Scenario: Testing Tablet PC's

In recent years the popularity of tablet PC's has replaced the use of traditional desktop computers and laptops. S Company, a manufacturer of personal computers decided to launch a new line of Tablet PC's. To ensure quality, S Company conducts rigorous testing before delivering products to the market. With HDMI being the most popular audio and video interface, S company's new Tablet PC will

allow users to use an HDMI interface via external dock. Therefore, the HDMI output signal of each Tablet PC needs to be tested for quality and reliability. Based on this consideration S company is looking for a solution that can effectively switch and test among different HDMI devices; to detect signals for performance and stability.

ATEN Solution

According to S Company's requirements, ATEN provided the following solution:

VS481A 4-Port HDMI Switch



The VS481A 4-Port HDMI Switch allows you to quickly and easily share your HDMI display device with 4 HDMI input sources. The VS481A allows convenient switching between digital devices such as DVD Players, Satellite Receivers, and Digital Camcorders. The VS481A allows you to select the desired input source via remote control, pushbuttons or utilizing the local RS-232 port.

Benefits

HDMI Certified Reliability

Consistent HDMI Video Signals Delivered — VS481A 4-Port HDMI Switch is HDMI certified. It is compatible with HDMI and HDCP, so the signal is always stable to ensure perfect testing results.

RS-232 Switch Control for Flexible Testing

The switching procedures can be customized via RS-232: to switch between the HDMI signal inputs from different ports. This provides flexible and customizable testing procedures to reduce labor costs on the production line. In addition, personnel can connect to a server that controls the switching to monitor testing.

Rapid Response & Increased Efficiency

ATEN VS481A features rapid response- signals can be output quickly to improve testing efficiency and reduce delay costs on the production line.

Improve Compatibility Testing

The VS481A 4-Port HDMI switch is designed for fast and effective compatibility testing of HDMI devices on a production line- with quality and reliability you can trust.

Simplify Testing Process

The port switching function allows operators installing parts on the assembly line to test four components on each Tablet PC in advance - to quickly and conveniently accomplish each test using RS-232 port switching - boosting production efficiency. The testing equipment (HDMI Checker) is plugged into the HDMI switching device - therefore there is no longer the need of plugging and unplugging each Tablet PC in to each HDMI testing device; thus extends the life of the testing equipment as well.

Setup

The VS481A 4-Port HDMI Switch allows you to quickly and easily share one HDMI display device with 4 HDMI input sources. On the production line during the testing phase each Tablet PC will be inserted into a testing dock, and the dock will be connected to a VS481A unit. With the HDMI output port connected to a signal tester, using an RS-232 controller device- S company sets an auto switching process to: ON and OFF for each device to be tested against different HDMI sources for signal consistency, reliability and overall performance. This set up simplifies their testing process and places it at the heart of the production line, allowing integration of detailed quality assurance with increased productivity. ATEN provides a complete and valuable HDMI testing solution for any production, or manufacturing company looking to compete with quality.

