

Adder AVS-4228, AVS-42216, XDS441, XDS441FX Firmware Version 44404- E7E7 Peripheral Sharing Devices

Common Criteria Guidance Supplement

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1 PREPARATION OF THE OPERATIONAL ENVIRONMENT

1.1 OPERATIONAL ENVIRONMENT

For secure operation, users are required to ensure the following conditions are met in the operational environment:

- TEMPEST approved equipment may not be used with the secure peripheral sharing device
- The operational environment must provide physical security, commensurate with the value of the peripheral sharing device and the data that transits it
- Wireless keyboards, mice, audio, user authentication, or video devices may not be used with the secure peripheral sharing device
- Peripheral sharing device Administrators and users are trusted individuals who are appropriately trained
- Administrators configuring the peripheral sharing device and its operational environment follow the applicable security configuration guidance
- Special analog data collection cards or peripherals such as analog to digital interface, high performance audio interface, or a component with digital signal processing or analog video capture functions may not be used with the secure peripheral sharing device

2 SECURE ACCEPTANCE PROCEDURES

Adder peripheral sharing devices may be purchased directly from Adder, or through distributors and resellers / integrators.

Upon receipt of the Adder peripheral sharing device, the customer can verify the configuration and revision by comparing the part number and revision on the packing list with the label on the back of the hardware unit. The nameplate includes the product part number (CGA) which is linked directly to the revision of the hardware components and firmware. Verification of the part number provides assurance that the correct product has been received.

The customer must download product documentation from the Adder website in Adobe Acrobat Portable Document Format (PDF). The customer can confirm that the documentation matches the purchased model.

Customers are instructed to check all delivered products for package container seals, and to verify that product tampering evident labels are intact. If an issue is discovered, the customer is instructed to return the product immediately.

3 SECURE INSTALLATION PROCEDURES

This section describes the steps necessary for secure installation and configuration.

3.1 SECURE INSTALLATION

Instructions for secure installation may be found in the Quick Start Guides.

4 SECURE OPERATION

This section describes the steps necessary for the secure operation of the Adder Peripheral Sharing Devices.

4.1 SELF TESTS

A self test is performed at power up. Self test failures may be caused by an unexpected input at power up, or by a failure in the device integrity. A self test failure may also be an indication that the device has been tampered with.

A user may initiate a self test by following the procedures outlined in Table 1 for the applicable device type. In the case of a self test failure, users are directed to contact Adder Technical Support.

Device Type	Procedure
AVS-4228, AVS-42216	<ol style="list-style-type: none"><li data-bbox="462 835 1403 930">1. To enter self test mode, remove all HID devices and power on the combiner device. The KVM functions, and the video, keyboard and mouse USB ports are disabled.<li data-bbox="462 930 1040 961">2. To exit self test mode, cycle the power.
XDS441, XDS441FX	<ol style="list-style-type: none"><li data-bbox="462 976 1403 1071">1. To enter self-test mode, disconnect the display for at least five seconds, and power on the unit. The keyboard/mouse and video are disabled.<li data-bbox="462 1071 1040 1102">2. To exit self test mode, cycle the power.

Table 1 – Procedure to Initiate a Self Test

4.2 ERROR STATE

As the product powers up, it performs a self-test procedure. Following failure of a self-test, the device will enter an error state. The error state is indicated by sequential flashing of the Light Emitting Diodes. The combiner devices will also make a clicking noise. At this point, the device will be inoperable. It will not accept input from any peripheral device or pass output to any peripheral device.

4.3 SELECTED CHANNEL AT STARTUP

Channel 1 is selected by default when the peripheral sharing device is started.

4.4 NUMBER OF SUPPORTED DISPLAYS

The number of supported displays is shown in the following table:

Device	Number of Supported Displays
AVS-4228	2
AVS-42216	2
XDS441	1
XDS441FX	1

Table 2 – Number of Supported Displays by Device

4.5 AUTHORIZED HUMAN INTERFACE DEVICES

Most USB keyboard and mouse devices may be used with the Adder secure peripheral sharing device.

4.6 GUARD MODE OPERATION

For the AVS-4228 and AVS-42216 combiner devices, users may switch the connected computer using mouse movement and a guard. The user must press the Left Ctrl button while dragging the mouse between screens to switch channels.