

Aten Aten Video Matrix

Device Driver Specification.

2019/03/18



A Whole World of Integration



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1 Document Versions

Version	Date	Name	Change
1.0	2018-10-30	HH	Document Created.
2.0	2019-03-18	AM	Updated to use IP connection
2.1	2019-03-20	AM	Added extra property
2.2	2019-03-20	AM	Change the namespace of the driver package
2.3	2019-03-26	AM	Applied review observation.

2 Referenced Documents

Document	Version	Description
Driver Project Requirements (DDK-PR)	1.0	The Aten Aten Video Matrix driver must conform to all the requirements detailed in this document.
Driver Connection and Online States Requirements (DDK-DC)	1.0	The Aten Aten Video Matrix driver must conform to all requirements in this document detailed in the section: Device Connection and Online States

3 Manufacturer

Name Aten



Website <https://www.aten.com>

Description ATEN specializes in connectivity and management solutions. We distribute our products through a global sales network to meet a broad range of customer needs.

4 IPSecurityCenter Versions

The driver must be compatible with the following IPSecurityCenter versions:

IPSecurityCenter Version	Supported
5.7	<input checked="" type="checkbox"/>

5 Operating Systems

5.1 Client Side Functionality

Operating Systems	Supported
N/A	

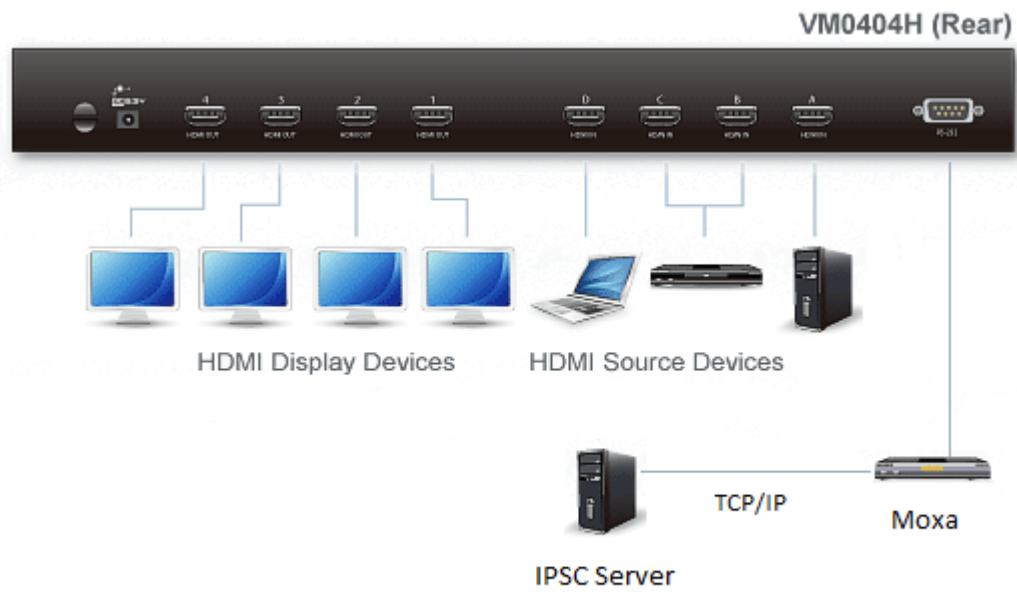
5.2 Server Side Functionality

Operating Systems	Supported
Windows Server 2008 R2	<input checked="" type="checkbox"/>
Windows Server 2012	<input checked="" type="checkbox"/>

6 Models / Firmware Versions

Model	Versions	SDK
N/A		

7 Hardware Configurations



8 Driver Package

The driver package is named:

CNL.IPSecurityCenter.Driver.AtenVideoMatrix.Version. [BUILD-VERSION].ipsedriver

9 Driver Features

9.1 Aten Video Matrix

9.1.1 Device Connection and Online States

The full requirements for these features can be found in the [Device Connection and Online States Requirements](#)

Feature	
DC1.0 Device Online Status	Command poll
DC2.0 Authentication	None

9.1.2 Video

This device does not support video.

9.1.3 Properties

General requirements for properties can be found in [Driver Project Requirements](#).

Name	Type	Description	Default Value & Ranges
Debug Logging	bool	Flag to enable INFO/DEBUG log entries,	Default: false
Keep Alive Interval	Int	Interval in milliseconds to send a keep alive message to the Video Matrix	Default: 15000 Min: 3000 Max: 30000

9.1.4 Methods

General requirements for methods can be found in [Driver Project Requirements](#).

9.1.4.1 Switch Port

Switch Port

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Input Port	int	Input Port	Default: 1 Min: 1 Max: 99
Output Port	int	Output Port	Default: 1 Min: 1 Max: 99

9.1.4.2 Video

Switch video off

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Command	CommandOnOff	Video on or off	Default: CommandOnOff.On
Output Port	int	Output Port	Default: 1 Min: 1 Max: 99

9.1.4.3 Next Port

Next Port

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Output Port	int	Output Port	Default: 1 Min: 1 Max: 99

9.1.4.4 Previous Port

Previous Port

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Output Port	int	Output Port	Default: 1 Min: 1 Max: 99

9.1.4.5 EDID

Extended Display Identification Data

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Command	EdidCommand	Edid configuration	Default: EdidCommand.Default Min: Max:

Port Number	int	Port Number (default = 1)	Default: 1 Min: 1 Max: 99
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9.1.4.6 CEC

CEC

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
CEC Command	CommandOnOff	CEC on or off	Default: CommandOnOff.On Min: Max:

9.1.4.7 Button State

Off to lock buttons on device. On to unlock buttons on device.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Command	CommandOnOff	Off to lock buttons on device. On to unlock buttons on device.	Default: CommandOnOff.On Min: Max:

9.1.4.8 Reset

Reset

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
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9.1.5 Events

General requirements for events can be found in [Driver Project Requirements](#).

9.1.5.1 Command Response

Indication if command succeeded or not

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
Command Issued	string	The command that was sent to Aten Video Matrix
Success	bool	True is command was executed successfully

10 Installation

10.1 Prerequisites

The driver does not require the installations of an SDK, all functionality is contained within the device driver.

10.2 Driver Installation

- Start the IPSecurityCenter™ client and any supporting services
- Open the Device Driver Manager from the System Configuration
- Click the ***Install*** button
- Select the Aten Aten Video Matrix Driver Package in the Open file dialog
- Wait for the driver to be uploaded

The driver packages should be listed in the Device Driver Manager.

Additional Installation Details

10.2.1 Device Configuration

- Right click in a folder (e.g. Devices) in the System Configuration: **New** → **Device On** → **Server**
- Click **Next** on the introduction
- Select **Aten** in the **Device Manufacturer** list
- Select **Aten Video Matrix** in the Available Devices list
- Click **Next** to enter the device details: Enter the Aten Video Matrix hostname or IP address, the port (use 0 to use the default port), and user name and password if integrated security is not being used.
- Click **Next** and **Finish** to add the device.
- Enable the device to bring it online.

Additional Configuration Details

10.2.2 Driver Compatibility

The following devices are known to be incompatible with the Aten Video Matrix.

Model

11 Issues and Observations

- The VM0404HA device does not support audio control, as a consequence no audio mute command is presented in IPSC
- The driver send a still alive message to the Video Martix with the content 'ping'. This is not a valid command for the switch and the expected response is 'Command incorrect'. If debug logging has been enabled expect to see these messages in the logs. They DO NOT indicate an issue with the driver.