



Integration Note

Manufacturer:	AVProConnect
Model Number(s):	AC-MX1616-AUHD-HDBT
Core Module Version:	g! 8.3
Comments:	
Document Revision Date:	27/06/2019

OVERVIEW AND SUPPORTED FEATURES

These drivers allow an Elan g! system to control the AVProConnect AC-MX1616-AUHD-HDBT A/V matrix via either RS232 or Ethernet, with full two-way support for control and feedback. There is additional support for configurations up to 16x48 where matrices are connected to create a "stack". Note that stacked configurations are only controllable via RS232.

THE FOLLOWING FEATURES ARE SUPPORTED BY THE AVPROCONNECT MATRIX:

- Discrete input/output selection.
- Output video setup commands.
- Stacked configurations up to 16x48 (RS232 only)

THE FOLLOWING FEATURES ARE NOT SUPPORTED BY THE AVPROCONNECT MATRIX:

- Discovery of devices.

Any feature not specifically noted as supported should be assumed to be unsupported.
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AVProCONNECT CONFIGURATION

It is recommended that the matrix is installed and configured by a suitably qualified engineer, prior to integration with this driver. To avoid the possibility of communication problems, the matrix should be configured with a static IP address (rather than using DHCP).

NOTE: The AC-MX1616-AUHD-HDBT will only allow one telnet connection at any one time. Ensure no other control devices are attempting to connect to it via Telnet, as this will affect the feedback to the driver.

g! CONFIGURATION

The release package contains the following driver files:

AvProConnect_ip_AC-MX1616-AUHD-HDBT_16X16.EDVRC
AvProConnect_serial_AC-MX1616-AUHD-HDBT_16X16.EDVRC
AvProConnect_serial_AC-MX1616-AUHD-HDBT_16X32.EDVRC
AvProConnect_serial_AC-MX1616-AUHD-HDBT_16X48.EDVRC

If a single matrix is in use, then either the IP driver, or the serial 16x16 variant should be used. The single matrix drivers use A00 as the address for any commands to be sent to the device.

If more than one matrix is in use with IP as the control method, then multiple ***AvProConnect_ip_AC-MX1616-AUHD-HDBT_16x16.EDVRC*** drivers need to be installed (one for each matrix in the stack). Each matrix requires a separate Ethernet connection and the respective IP address should be set in the driver settings in Configurator. As single matrix drivers are used, A00 is used as the address for each matrix for any commands to be sent.

If multiple matrices are in use with control via RS232, they should be connected according to AVProConnect documentation, and one instance of the appropriate serial driver for the number of outputs should be installed. For example, if you have 3 matrices in the stack (48 outputs), then install the driver entitled ***AvProConnect_serial_AC-MX1616-AUHD-HDBT_16X48.EDRVC***. The addresses for each device need to be sequential A01, A02, A03 (in this example) as these are the addresses that the driver will use for the commands.

It is recommended that you follow the below installation process in order to ensure you are running the latest version of the driver.

1. If you plan to use RS232, install a standard serial communication device (note that no communication device is required for IP control).
2. Obtain the latest version of the driver, as described above, and ensure you know the location of the extracted EDRVC driver files on your computer's hard drive.
3. Right click on the **Zone Controllers** heading and select **Add New Zone Controller**.
4. From the **Add New Zone Controller** window, choose **Search Folder** and navigate to your driver location, before clicking **OK**.
5. Select the driver you require and click on **OK**.
6. To make sure that the latest version of the driver is running, click **Update Driver** in the driver settings in Configurator.

g! CONFIGURATION DETAILS

The following table provides settings used in Configurator when connecting to the matrix. Please refer to the Configurator Reference Guide for more details. In the table below:

- “<User Defined>”, etc. Type in the desired name for the item.
- “<Auto Detect>”, etc. The system will auto detect this variable.

	Device Type	*Not Applicable*	Serial Port / Standard Connection
	COM Port	*Not Applicable*	<Select from list>
	Protocol	*Not Applicable*	<Auto Detect>
	Baud Rate	*Not Applicable*	<Auto Detect>
	Flow Control	*Not Applicable*	<Auto Detect>
	Parity	*Not Applicable*	<Auto Detect>
	Data Bits	*Not Applicable*	<Auto Detect>
	Stop Bits	*Not Applicable*	<Auto Detect>
Zone Controllers	Name	<User Defined> (Default: <Auto Detect>)	<User Defined> (Default: <Auto Detect>)
	System #	<Auto Detect>	<Auto Detect>
	Driver Version	<Auto Detect>	<Auto Detect>
	Driver Vendor	Janus	Janus
	Device Type	AvProConnect 16x16 AC-MX1616-AUHD-HDBT ip	AvProConnect 16x16 AC-MX1616-AUHD-HDBT serial
	Debug Level	<User Defined>	<User Defined>
	Debug Subsystems	<User Defined>	<User Defined>
	IP Address	<User Defined>	*Not Applicable*
	Port	<Auto Detect> (Default: 23)	*Not Applicable*
	Communication Device	*Not Applicable*	<Select from list> (Choose Serial Port)
Sources	System #	<Auto Detect>	<Auto Detect>
	Source Device	<Select from list>	<Select from list>
	Display Icon	<Select from list>	<Select from list>
	Source Volume	<Auto Detect>	<Auto Detect>
	Display Name	<User Defined>	<User Defined>
Zones	Name	<User Defined> (Default: <Auto Detect>)	<User Defined> (Default: <Auto Detect>)
	System #	<Auto Detect>	<Auto Detect>
	Universal Receiver	<Select from list>	<Select from list>
	Display 1	<Select from list>	<Select from list>
	Display 2	<Select from list>	<Select from list>
	Slave Zone 1	<Select from list>	<Select from list>
	Slave Zone 2	<Select from list>	<Select from list>
	Turn On Source	<Select from list>	<Select from list>
	Hide Volume	<Select from list>	<Select from list>
	Matrix Only	<Select from list>	<Select from list>
	Audio Return Input	<Select from list>	<Select from list>

g! CONFIGURATOR EVENT MAPPER

Open Configurator and navigate to Event Mapper tab where you can add commands.

New event maps can be added by right-clicking on “Event Maps” and clicking “Add New Event Map”

Commands can be added by clicking “ADD” in the bottom right.

The list of commands (including zone and source commands):

- Ex-Audio Matrix Mode
- LCD Remain On Time
- Set Key Lock
- Enable/Disable Ex-Audio Output (zone command)
- Set Ex-Audio Output to Input (zone command)
- Set HDMI output stream (zone command)
- Set HDBT output stream (zone command)

COMMON MISTAKES

1. Not ensuring there are no other devices are attempting to connect to the matrix via telnet.
2. Using the wrong driver file.
3. Entering the wrong IP address for the IP driver.
4. Using an incorrect cable assembly when connecting via RS232.
5. Not having the devices configured with the correct addresses (e.g A01, A02, A03 for a 3 stack serial configuration).