Integration Note

Manufacturer:	Atlona
Model Number(s):	**AT-PRO2HD 88M, 1616M, 44M (HD-BaseT)** **AT-HD-V 44M, 1616M (HDMI)** **AT-PRO3HD44M, 66M (HD-BaseT)** **AT-H2H-44M, 88M (HDMI)** Device Tested: ATPRO2HD1616M FW1.1.14, AT-PRO3HD44M, H2H-44M FW1.0.02, AT-PRO3HD66M
Minimum Core Module Version:	g! 5.9.34 g! 6.1.34 (Pro3HD44M) g! 6.4.200 (Pro3HD66M)
Document Revision Date:	8/5/2013

OVERVIEW AND SUPPORTED FEATURES

The Atlona HDMI/HD-BaseT switchers provide matrix switching of HDMI video signals and are available in 4x4, 8x8, 6x6 or 16x16 sizes. Atlona switches connect to the **g!** system with a RS-232 serial connection to allow reliable 2-way communication.

THE FOLLOWING FEATURES ARE SUPPORTED:

Matrix Source Selection: The g! Viewer interface, zone slaving, or Event Maps can be used to select sources by zone from the g! system. Feedback is provided to keep the g! Viewer in sync with any changes made via IR or the unit front panel on a standard query cycle. Any input may be sent to any output.

THE FOLLOWING FEATURES ARE NOT SUPPORTED:

Control from HomeBrick/MultiBrick: Atlona devices cannot be controlled from HomeBrick/MultiBrick controllers.

Serial Pass-through: Some Atlona devices support a feature where Serial is passed through on the Cat-5 along with the HDMI signal. This feature is not integrated with the g! system driver.

Control Via SerialBrick: The Atlona is not compatible with control via the Elan Serial Brick.

Ethernet control: Some models include an Ethernet jack that will be enabled by a future firmware update. Control is not available via Ethernet and only Serial may be used at this time.

Notable Common Video Switch features not available on the Atlona devices: The following features are not available on the Atlona chassis itself:

- **Audio Control:** Atlona devices do not support any modification of the audio signal, such as volume control.
- **Independent Audio/Video Switching**: All A/V signals in the Atlona switcher are linked. It is not possible to route audio from input 1 and video from input 2 to output 3, for example.
- **Multiple Chassis Configuration:** Atlona devices do not support multi-stack chassis configuration.

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

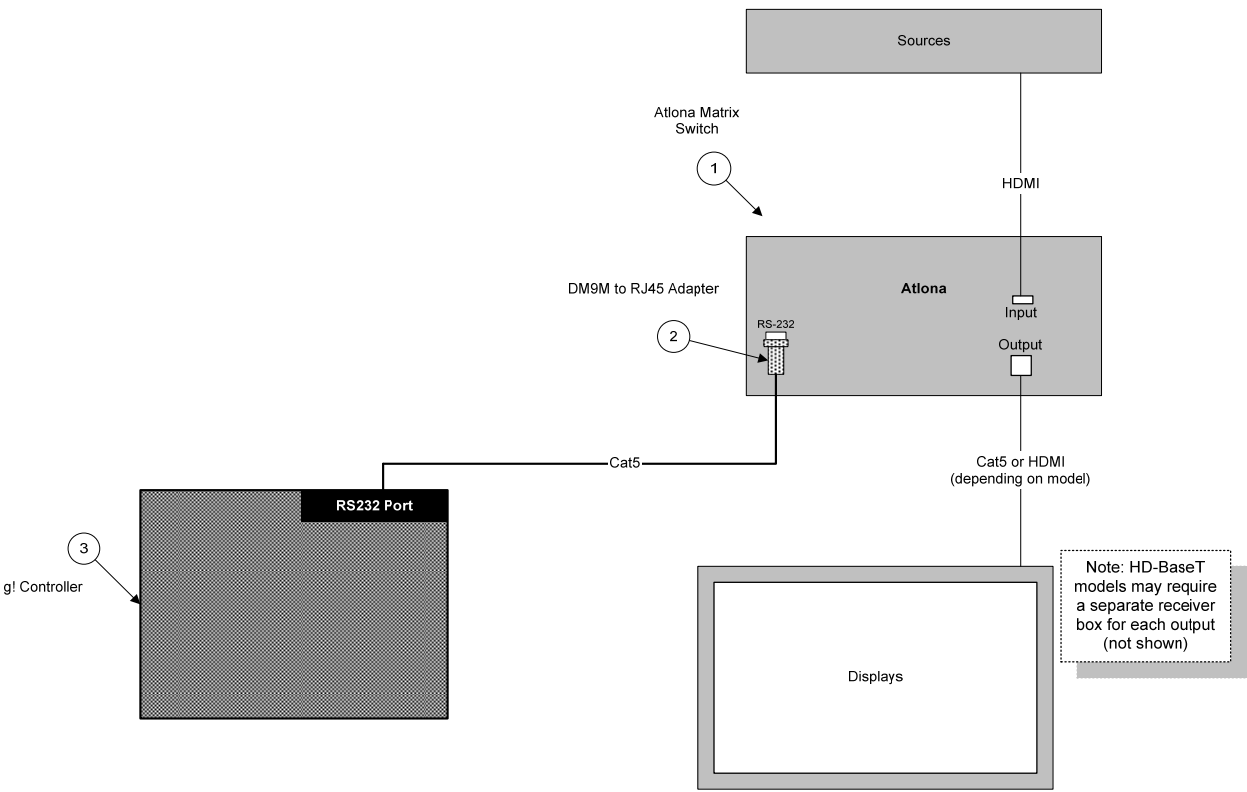**IMPORTANT NOTE REGARDING ATLONA POWER BEHAVIOR**

The Atlona switchers are expected to be turned on and left on at all times, and the **g!** system will not attempt to manage chassis power state as a normal part of source selection.

Due to the way the Atlona chassis manages power and responds to serial commands, if the unit is turned off on the front panel, the Viewer in **g!** will continue to operate as normal, but the chassis will not turn on. If it is required, the Atlona may be turned on/off through Event Map commands (which may be linked to an interface button, such as on a Settings page). Note that caution should be exercised with managing power state on the Atlona as the unit still responds to source commands when powered off, does not provide any power state tracking, and the unit will perform a re-initialization after any Power On command is received, interrupting all outputs for 30 seconds or more.

INSTALLATION OVERVIEW

1. During the rough-in phase, install wires for the sources, amplifiers and displays for each zone.

2. Also during the rough-in phase, run a Cat5 wire from the location of the switch back to the Network Assembly of the **g!** system for RS-232 communications. Refer to the **RS-232 Connection Options** Integration Note for other options.

3. Install the switch, the sources, amplifier, displays and speakers.

4. Confirm proper audio and video switching as a stand alone system.

5. Connect the **g!** system to the switch electrically. See the wiring diagrams for more information.

6. Configure the **g!** system for the switch and confirm communication between the switch and the **g! Controller**. See **g! Configuration Details**.

7. Test the system by changing sources in a zone to confirm the correct source plays. Test source control for any sources that are to be controlled from the **g!** interface.

CONNECTION DIAGRAM

Sources

Atlona Matrix Switch

①

HDMI

DM9M to RJ45 Adapter

Atlona

Input

RS-232

②

Output

Cat5

Cat5 or HDMI
(depending on model)

RS232 Port

③

Note: HD-BaseT models may require a separate receiver box for each output (not shown)

g! Controller

Displays

BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Atlona HDMI Switch	Atlona	Various, see Int Note title for supported models	HDMI/HD-BaseT	HDMI Female / RJ-45 Female	
2	DB9M to RJ45 Adapter	Elan	HA-CB-307	RS-232	DB-9 Male X RJ-45 Female	
3	g! Controller	Elan	Various (ex. HC-12)	RS-232	RJ-45 Female	
	HDMI Extender (HD-BaseT to HDMI)	Atlona	AT-PRO2HDREC or AT-PRO2HDREC-DA	HDMI/HD-BaseT	RJ-45 Female	IF NEEDED (Not shown) See Atlona Doc's
	HDMI Cables	Various	n/a	HDMI	HDMI Male	As needed
	Cat-5 **568B** Cables	Installer	n/a	HD-BaseT or RS-232	RJ-45 Male	As needed for RS-232 and HD-BaseT distribution; HD-BaseT requires 568B

Note: To check firmware, use the device front panel buttons as described in the product manual. For example, The AT-PRO2HD1616M uses Function>16. The H2H-44M uses function> then press 4 for 5 seconds.

RS-232 Setup: No changes needed—default 115200 8 None 1 settings used. Note the V44M uses 9600 and requires the build listed at the top of this document for proper function.

g! CONFIGURATION DETAILS

The following table provides settings used in the g! Configurator. Please refer to the **g!** *Configurator Reference Guide* for more details.

In the table below:

- o "<Select>" Select the appropriate item from the list (or drop-down) in the Configurator.

- o "<User Defined>", etc. Type in the desired name for the item.

Devices	Variable Name	Setting	Comments
Communication Devices	**Name**	<User Defined> (Default: New Device)	Elan recommends altering the name to be device specific.
	Type	**Serial Port**	
	Communication Type	**Standard Connection**	
	Location	<User Defined> (Not Required)	
	Com Port	<Select>	
<Other RS-232 Sources>	**Add any other RS-232 controlled sources. Refer to the Integration Note for each specific source device.**		
<Other IR Controlled Sources:	**Add IR devices on the Input/Output tab for other IR controlled sources. Refer to the Configurator Reference Guide .**		
Other Audio Devices / Interface	**Name**	<User Defined>	Add Interfaces for any source that does not have a built-in interface
	Template	<Select>	
	Default Device	<Select>	Select the RS-232 or IR controlled source for this interface
Audio Zone Controllers	**Name**	**<User Defined> (Default: Atlona *MODEL*)**	Where *MODEL* equals the device model # integrated
	Device Type	Atlona *MODEL*	Where *MODEL* equals the device model # integrated
	Location	<User Defined> (Not Required)	
	Comm Device	<Select> (Default: New Device)	
Sources	**Name**	<User Defined>	
	Source Device	<Select>	Sources must be previously configured in order to allow selection.
	Source Volume	<Select>	
	Show Source	<Select>	Set to No for any inputs that are not used
	Source Icon	<Select>	This icon appears on the source button in the Viewer Interface
	Display Name	<User Defined>	This text appears on the source button in the Viewer Interface
Zones	Name	<User Defined>	
	Display	<Select>	
	Universal Receiver	<Select>	
	Configuration Interface	<Select>	
	<Sources List>	<N/A>	
Tab Layout	Interface Tabs	<Select>	Move any unused zones to the right into Available Zones to remove from the viewer

COMMON MISTAKES

1. Incorrect **g!** build. Note the V44M & V1616m default to 9600 baud and not 115200 like other models, and the Core Module listed in this document header is required for control. In addition, PRO3HD models require the newer core module.