

ELK-M1XSLC

M1 Interface kit for Lutron Homeworks QS or Caséta Line

CASÉTA® WIRELESS INSTRUCTIONS

APPLICATION:

The **ELK-M1XSLC** Interface Kit has been enhanced to support Lutron's Homeworks and Caséta products. Interfacing M1 Control to Lutron allows intelligent control of devices in response to security system actions or conditions. The most typical integration devices supported are: Lights, Shades, and Keypad controllers. The level of integration is dependent on which type and model of Lutron devices being implemented.

ELK-M1XSLU SPECIFICATIONS:

- Connects to the ELK-M1 Keypad Databus
- Addressable as a TYPE 5 Databus (ID 1-7)
- Operating Voltage: 12 Volts DC *Supplied from M1*
- Current Draw: 31mA
- Activity/Status LED (Orange)
- Auto-Reset Hardware Watchdog Circuit
- Housing Dimensions: 4.25" x 6.375" x 2.125"
- Circuit Board: 2.75" x 3.95"
- Connects to IP232 via RS232 and null modem (Incl.)
- Connects to M1 via 4 screw terminals

ELK-IP232 SPECIFICATIONS:

- Converts RS232 Serial to IP for connection to the IP port on Lutron's QS or Smartbridge Pro Interfaces
- LED Indicators for Power, Link, and Data
- Operating Voltage: 12 Volts D.C.
Supplied from ELK-P1216 Power Supply (Incl)
- Current Draw: 135 mA
- Dimensions: 3.85" L x 1.7" W x 0.93" D



Specifications are Subject to Change without notice.

NOTICE: Drawings, illustrations, diagrams, part numbers, etc. are provided as reference only and are based on equipment available at the time the information was created. All information contained in this document are subject to change without notice.

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NOTE: The Caséta product family offers temperature solutions using "WiFi thermostats". These are not supported through M1. They can only be controlled through IP using Lutron Caséta smartphone app.

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PLEASE READ THIS PAGE FIRST!

LUTRON CASÉTA® WIRELESS

The following components will be needed to integrate Elk to Lutron Caséta Wireless.

<u>QTY</u>	<u>Part Number & Description</u>
1	ELK-M1 or M1EZ8 Control
1	ELK-M1XSLC Kit
	Contents of kit:
	ELK-M1XSLU M1 to Lutron serial interface
	ELK-IP232 Serial to IP Converter (Firmware version 1.0.18 and later ***)
	9 Pin Serial ribbon cable
	9 Pin Null Modem adapter
	ELK-P1216 Plug-in 12VDC Power Supply
1	ELKRP Remote Programming Software. This can be downloaded from Elk Website www.elkproducts.com
1	ELK-IP232 Utility Software. This can be downloaded from Elk Website www.elkproducts.com
1	Lutron Smartbridge Pro Interface w/plug-in Power Pack
?	1 or more Lutron Caséta Wireless lighting or shade devices

Overview: Lutron Caséta devices communicate wirelessly with each other through a central interface called the Lutron Smartbridge. This Smartbridge is also an IP Gateway that connects to the customer's router and ultimately to Lutron's Caséta Cloud services. Lutron supplies iOS and Android smartphone apps that connect to their cloud services and provides the means for operation and setup of the devices. Integration of Caséta to the ELK control requires the special "PRO" version of the Smartbridge (Smartbridge Pro). The ELK-M1XSLU Lutron Interface handles the protocol conversion from ELK to Lutron and the ELK-IP232 creates the IP connectivity with the Lutron Smartbridge.

Disclaimer: While Caséta does integrate with temperature solutions like "WiFi Thermostats", these devices are linked directly to the Caséta Cloud services and are only controllable via the smartphone app. They do not communicate through the Smartbridge Pro and therefore do not communicate with ELK. Please be aware that Caséta integration with ELK does not provide any ability for ELK to interface with "WiFi" Thermostats.

Integration Device Capacity: Caséta can host up to 50 total wireless devices. The devices that are currently known to interface with ELK are the Caséta lighting dimmers/switches, Caséta plug-in dimmers, and Caséta Window Blinds/Shades.

Integration Scene Capacity: Caséta offers up to 50 total scenes. These scenes are setup via the smartphone apps and stored in the Smartbridge. The M1 integration communicates to the Smartbridge Pro to trigger these scenes or "buttons: as they are referred to in the Lutron integration report.


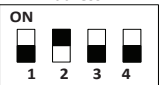
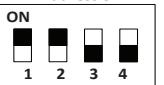
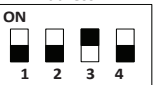

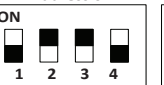
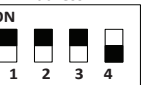

Important: Do not attempt to integrate with Lutron Homeworks using any of Elk's other "standard" serial interface modules. ONLY the ELK-M1XSLC Kit provides the hardware and software for near plug-and-play integration with Lutron Homeworks.

LUTRON CASÉTA WIRELESS

2 - Equipment Setup

Please setup the Lutron equipment and devices and have them all working before proceeding.

- 2.1 Turn off the power to all equipment before making any wiring connections.
- 2.2 Wire the M1XSLU to the M1's RS485 data bus. Please follow the recommendations in the M1 Installation book and this manual for wiring the 4 conductors of the data bus (+12V, A, B, and Neg) to the terminals on the M1XSLU. You should never attach more than 2 homerun cables directly to the M1 Control! The preferred way to connect multiple bus devices to M1 is to either daisy chain connect them along each homerun wire, or add a data bus hub device (Elk M1DBH or M1DBHR) in the panel that will support connection of multiple homerun cables.
- 2.3 Wire the IP232 to the M1XSLU using the supplied DB9F to DB9M Serial ribbon cable and DB9M to DB9F Null Modem adapter. DO NOT use an extension or attempt to make this cord any longer! Be sure to mount the M1XSLU and IP232 in close proximity to a wired Local Area Network (LAN) connection.
- 2.4 Wire the IP232 to the LAN using a CAT5 or CAT5 network cable (not supplied). The IP232 converts the serial topology of the M1XSLU into Ethernet (IP) topology allowing integration over IP to the Lutron Caséta Smartbridge Pro interface.
- 2.5 Set the data bus address DIP switches on the M1XSLU to a value between 1 and 7 (see Table 1). Be sure the selected address is not already being used by another Elk serial expander (type 5) device. Each switch has an OFF and On position (binary value 0 or 1). The combination of these switches represents a decimal value between 0 (all Off) and 15 (all On).

Address 1	Address 2	Address 3	Address 4	Address 5	Address 6	Address 7	LEGEND
							
For Data Bus Type 5 Devices (Serial Expanders) the only valid Addresses are 1 thru 7 and therefore the maximum number of Type 5 Devices is 7.							
Data Bus Terminating Jumper JP1 – This engages a 120 Ohm resistor for terminating the M1 RS-485 Data Bus. See Data bus wiring instructions before use.							

- 2.6 Wire the Smartbridge Pro to the LAN using a CAT5 or CAT6 network cable (not supplied). Power the Lutron device using it's appropriate lower supply.
- 2.7 Wire the ELK-IP232 to the customer's LAN using a CAT5 or CAT6 network cable (not supplied). The IP232 will be powered by the supplied P1216 plug-in AC to DC power supply.
- 2.8 If all wired connections are complete and secure it is now OK to apply power to the M1 Control which also supplies the power to the M1XSLU.
- 2.9 Perform a M1 Bus Module Enrollment to enroll the M1XSLU into the M1 Control. This can be done from a M1 Keypad or the ElkRP Software. From a Keypad access the Installer level programming and select Menu 01-Bus Module Enrollment. Press the right arrow key to start the enrollment. When complete press the right arrow (edit) key to view the results. NOTE: The ELK-M1XSLU shares the same bus type as other serial expanders and will display as a "SerialPExpdr T5" followed by a specific address (Addr) number. Verify the address displayed matches the address selected in step 2.5 above.

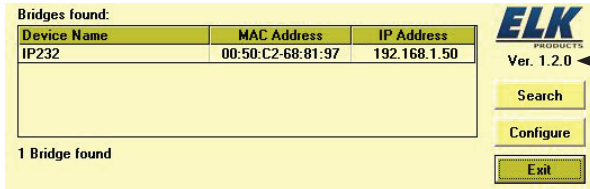
Should it ever be necessary to replace a ELK-M1XSLU; set the replacement unit to the same address as the old unit and perform the enrollment process. To permanently remove any data bus device perform the enrollment process AFTER disconnecting the device. This will help avoid a "missing device" trouble condition.

Slow blink (1/2 sec.) = Normal communication with M1.
Rapid flicker = Discovery Mode. The M1XSLU is synchronizing to collect current lighting data. This is automatically performed upon reboot or power up.
No blink = No communication with M1. Check the wiring with the M1 and that the device has power.

3 - Configuring the IP232 IP Interface

Download and install the IP232 Configuration PC software utility from the ELK website (www.elkproducts.com). A copy of the IP232 instructions is packed with the M1XSLC kit with steps for defaulting, resetting, or updating the IP232 firmware if needed.

- 3.1 Be sure the IP232 is connected to the local area network and is powered by the P1216 plug-in power supply.
- 3.2 Launch the Configuration Utility and click 'Search' to find the IP232 on the customer's local network. The Device Name (blank), MAC Address, and IP Address should appear in the display.

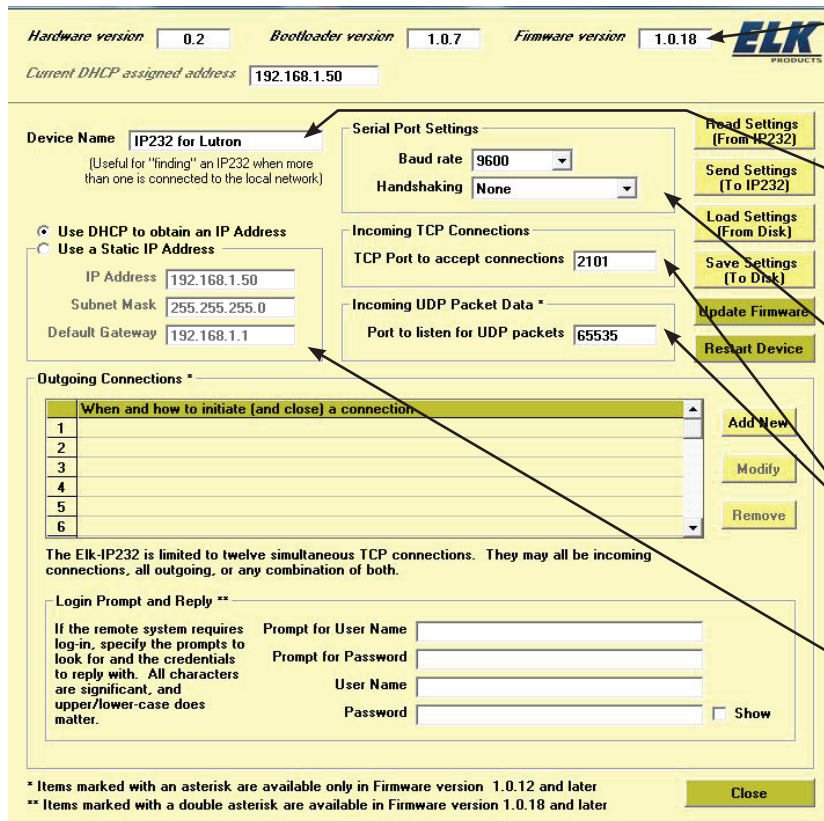


← IMPORTANT: The IP232 Configuration PC Software must be Ver. 1.2.0 or higher.

The IP232 is factory set for DHCP (dynamic) mode whereby it expects to be assigned a non-permanent IP Address from the client's router. DHCP makes it easy to add new devices to a network, however that address may change at some future time. The IP232 can be also assigned to a permanent or STATIC Address. For purposes of interfacing with Lutron the IP232 does not require a STATIC IP Address since it will always be making outgoing connections to the Lutron Smart Bridge Pro. Caution: If the IP232 is unable to obtain a DHCP address from the customer's router, it will fall back to a **STATIC IP Address of: 192.168.0.251**. This address might not be compatible with the customer's network, making it difficult for the Configuration Utility to discover it. Should this occur the most likely problems could be: 1) The client's router is not assigning DHCP addresses, 2) The client's router has reached its limit of available DHCP addresses it can assign, 3) The IP232 may have switched from DHCP mode to STATIC mode. Consult the IP232 manual for steps on how to force the IP232 from STATIC to DHCP mode and vice versa.

The IP232, Lutron Smart Bridge Pro and the PC running the Configuration Utility must each have their own unique IP Address, and each address must be compatible with the Network Subnet Mask and Gateway. For solutions on all of this seek additional help from a knowledgeable network or IT professional.

- 3.3 Once the IP232 is found and displayed in the window, compare the MAC address against the MAC address printed on the label attached to the IP232 to make certain it is the correct IP232.
- 3.4 Click to highlight the found device, then click "Configure" to launch the next screen.



← Firmware version must be 1.0.18 or higher. See IP232 Install manual for steps on updating.

← Program the IP232 with a name such as: **IP232 for Lutron**.

← Set the Serial Port settings to: **Baud rate 9600, Handshaking None**.

← Incoming TCP and Incoming UDP settings are not important for this application.

← Leave the IP232 set to DHCP mode since it is only making an outbound connection to the Lutron Smart Bridge Pro.

- 3.5 Verify that the Bootloader version is 1.0.7 or higher and that the Firmware version is 1.0.18 or higher. If either of these are older versions it will be mandatory to Update these. The **Bootloader must be Ver. 1.07** or higher and the **Firmware MUST be Ver.1.0.18** or higher in order for the ELK-IP232 to work with the Lutron Smartbridge Pro.
- 3.6 **Outgoing Connection Rules** - The IP232 must be setup to make an outgoing IP connection to the Lutron Smart Bridge Pro and keep that connection open at all times. If the connection should ever drop the IP232 will automatically reconnect.

TOPOLOGY: ELK-M1 < M1 Databus > ELK-M1XSLU < RS-232 > ELK-IP232 < IP > Lutron Smart Bridge Pro

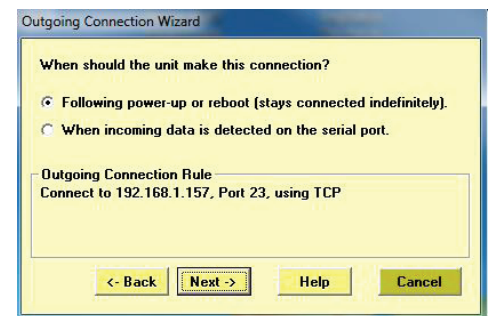
- A. In the Outgoing Connection box click **Add New** to start the rule wizard.
- B. Enter the **IP Address** of the Lutron Smart Bridge Pro. We highly recommend this to be a Static Address so that the IP232 can be permanently programmed with an Address that it can count on to work. Keep in mind that a DHCP Address may change at some future time. If that should happen then a service call would be necessary to reprogram the new Address into the IP232!

ELK strongly recommends setting the Lutron Smart Bridge Pro to a STATIC IP Address.
- C. Enter the **Port** as **23**.
- D. Set the connection type as **TCP** then click **Next**.
- E. Q1: When should the unit make this connection?

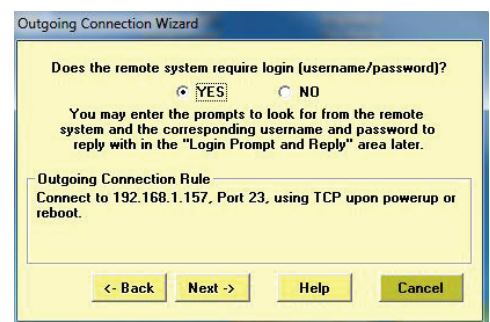


For instructional purposes ONLY this page shows an IP Address of 192.168.1.157 for the Lutron Smart Bridge Pro.

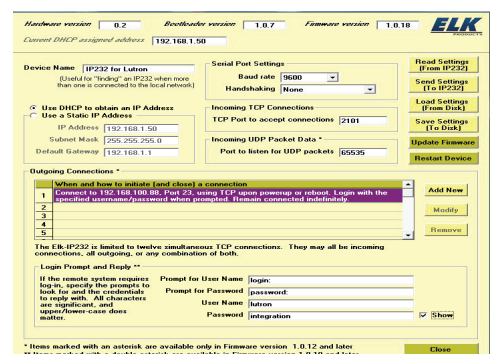
- F. Click: **"Following power-up or reboot (stays connected indefinitely)"**
- G. Click **Next**.



- H. Q2: Does the remote system require Login (username/password)?
- I. Click **"YES"**
- J. Click **Next**.



- K. Take a moment to review the Outgoing Connection Rule and make sure it looks correct.
- L. When everything is verified and correct click **Done**.



3.7 **Login Prompt and Reply** - The IP232 has the ability to make a telnet connection that is secured with a Username and Password. This is a requirement for connecting to a Lutron Smart Bridge Pro. The IP232 configuration utility allows full customization of the prompts and the responses for these security challenges.

IMPORTANT: The precise wording of each challenge and response must be known and entered into the spaces provided.

Listed below are the default prompts and responses that were known to be used by Lutron at the time this manual was printed.

Hardware version: 0.2 Bootloader version: 1.0.7 Firmware version: 1.0.18 ELK PRODUCTS

Current DHCP assigned address: 192.168.1.50

Device Name: IP232 for Lutron
(Useful for "finding" an IP232 when more than one is connected to the local network)

Serial Port Settings:
 Baud rate: 9600
 Handshaking: None

Incoming TCP Connections:
 TCP Port to accept connections: 2101

Incoming UDP Packet Data *
 Port to listen for UDP packets: 65535

Use DHCP to obtain an IP Address (selected)
 Use a Static IP Address

IP Address: 192.168.1.50
 Subnet Mask: 255.255.255.0
 Default Gateway: 192.168.1.1

Outgoing Connections *

When and how to initiate (and close) a connection	
1	Connect to 192.168.100.88, Port 23, using TCP upon powerup or reboot. Login with the specified username/password when prompted. Remain connected indefinitely.
2	
3	
4	
5	

The Elk-IP232 is limited to twelve simultaneous TCP connections. They may all be incoming connections, all outgoing, or any combination of both.

Login Prompt and Reply **

If the remote system requires log-in, specify the prompts to look for and the credentials to reply with. All characters are significant, and upper/lower-case does matter.

Prompt for User Name: _____
 Prompt for Password: _____
 User Name: lutron
 Password: integration Show

* Items marked with an asterisk are available only in Firmware version 1.0.12 and later
 ** Items marked with a double asterisk are available in Firmware version 1.0.18 and later

Below are the Login prompts and the replies shown in BOLD.

For "Prompt for User Name" enter:

login:

For "Prompt for Password" enter:

password:

For "User Name" reply enter:

lutron

For "Password" reply enter:

integration

Note: Password will be hidden unless the Show box is checked.

All characters are lowercase.

Be sure to include the colon ":" after the login and password entries.

3.8 The completed configuration should look similar to the above with the exception of the actual IP addresses.

3.9 Click **Send Settings (To IP232)** to program all of these settings into the ELK-IP232.

3.10 We suggest saving the configuration to hard disk or a thumbdrive for later retrieval. Click **Save Settings (To Disk)**.

3.11 Click **Close** when done.

LUTRON CASÉTA WIRELESS

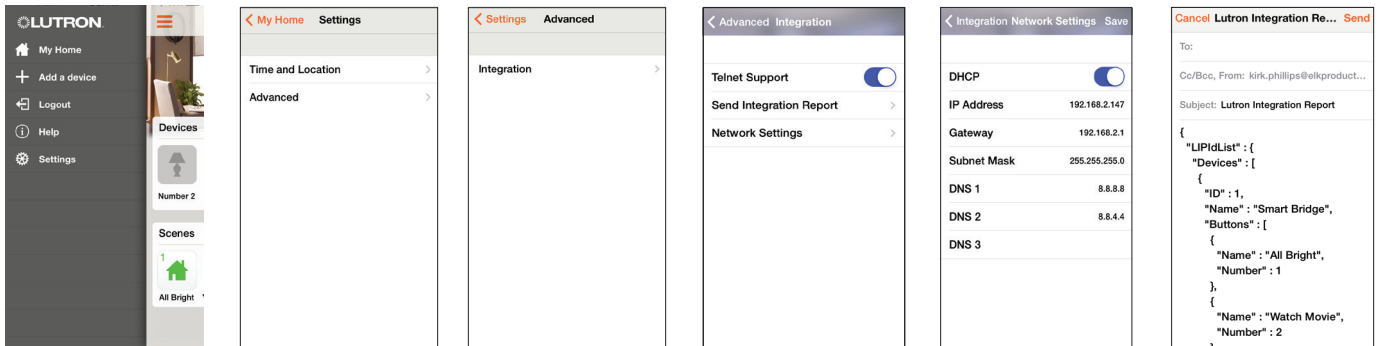
Configuring Lutron Caséta Devices into M1 Lighting

Each Caséta device is assigned a unique Integration Device ID when setup and programmed. Integration to the ELK-M1 involves mapping these Device IDs to corresponding numbered M1 Light Device locations. See Table 3. M1 Light Device locations that do not have corresponding Lutron Integration Device IDs should be left blank (unprogrammed). Below are the steps for ElkRP programming of M1 Lighting. Select ElkRP > Automation > Lighting.

TABLE 3: M1 Lighting Devices Mapped to Lutron Caseta

ELK Light Device	PLC (X-10) Ref.	Lutron Device ID	ELK Light Device	PLC (X-10) Ref.	Lutron Device ID	ELK Light Device	PLC (X-10) Ref.	Lutron Device ID	ELK Light Device	PLC (X-10) Ref.	Lutron Device ID
1	A01	1 – Caseta Smartbridge	14	A14	14	27	B11	27	40	C08	40
2	A02	2	15	A15	15	28	B12	28	41	C09	41
3	A03	3	16	A16	16	29	B13	29	42	C10	42
4	A04	4	17	B01	17	30	B14	30	43	C11	43
5	A05	5	18	B02	18	31	B15	31	44	C12	44
6	A06	6	19	B03	19	32	B16	32	45	C13	45
7	A07	7	20	B04	20	33	C01	33	46	C14	46
8	A08	8	21	B05	21	34	C02	34	47	C15	47
9	A09	9	22	B06	22	35	C03	35	48	C16	48
10	A10	10	23	B07	23	36	C04	36	49	D01	49
11	A11	11	24	B08	24	37	C05	37	50	D02	50
12	A12	12	25	B09	25	38	C06	38			
13	A13	13	26	B10	26	39	C07	39			

- Download the free Lutron Caséta Wireless App onto your smartphone. This app communicates with the Lutron Smartbridge Pro over the Internet and becomes the setup and programming tool for the Caséta Wireless devices. After setup this app can generate and email you an Integration Report displaying the Device IDs, Scenes (buttons), etc. This report is necessary for setting up the ELK-M1 to communicate to the Smartbridge Pro. NOTE: The Smartbridge Pro will be assigned Device ID #1. All other devices must be assigned Device IDs #2 through ID #50.
- Launch the Lutron Smartphone App and allow it to connect through the internet to the Lutron Smartbridge Pro. For assistance in connecting the smartphone app to the Smartbridge Pro follow the Lutron Instructions or contact Lutron Support. Elk Products cannot assist with this task.
- Proceed here ONLY after the Caséta Wireless Devices and Smartbridge Pro have been setup and programmed. On the Lutron Caséta smartphone app press the **3 horizontal bars icon** in the top left corner (the "hamburger menu").



- Choose the **Settings** option, then the **Advanced** option, followed by the **Integration** option.
- Turn On the **Telnet Support** by sliding the indicator to the right.
- Choose **"Network Settings"**. The current IP Address and settings of the Smartbridge will display. The address will most likely be a dynamic (non-permanent) DHCP address. We strongly suggest turning off DHCP and programming a STATIC IP Address instead. This will allow the IP232 to make an outgoing connection to the Smartbridge that will be permanent.

NOTE: If a STATIC IP Address is not setup and the network DHCP server reassigns a new address to the Smartbridge Pro, it will be necessary to make a service call to reprogram the new IP Address in the ELK-IP232.

- Choose **"Send Integration Report"** and enter an **Email Address** where you want the integration report to be sent. Hit Send.

Obtaining the Smartbridge Pro Integration Report

- Open your received email and retrieve and/or print the report.
- Launch the ElkRP Software and open or create an account for this job. If this is an existing account file be sure the ElkRP file and M1 Panel are synchronized with the same data. If in doubt, connect to M1 and select **Receive All** or **Send All**. The intent is to make sure your database and M1 programming are identical.

LUTRON CASÉTA WIRELESS

4.10 Select the Lighting folder from **EIKRP > Automation > Lighting** to open the Lighting display setup screen.

Device	Name	Format	Type	Opt	Show	V
1 (A1)	Smartbridge Pro	Serial Expander *	Dimmer	<input type="checkbox"/>	<input type="checkbox"/>	
2 (A2)	LR Lamp 1	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3 (A3)	LR Lamp 2	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4 (A4)	Ceiling Spots	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5 (A5)	Dining Rm	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 (A6)	Flood Lights	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7 (A7)	Mechanical	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8 (A8)	Foyer	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9 (A9)	Kitchen Spot	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10 (A10)	Kitchen Counter	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11 (A11)	Mst Bedroom	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

NOTE: Leave blank any M1 Lighting Device locations that do not have a Device ID to be mapped to.

- Populate the Device 1(A1) row first. Click on the **Name** box and enter: **Smartbridge Pro**.
 - In this same row click in the **Format** column/box and set it to: **Serial Expander**.
 - In this same row click in the **Type** column/box and set it to: **Dimmer**
 - In this same row leave the **Opt** column/box and the **Show** column/box **blank** (unchecked).
 - In this same row leave the **Voice Description** column/box **blank**.
- 4.11 For each additional Lutron Caséta Wireless device choose and program a name (up to 15 characters) to describe the location or name of the device. Then fill in the column/boxes according to their matching Device IDs. Note: The **Format** will always be **Serial Expander**. The **Type** will generally always be **Dimmer**. The **Opt**. should always be left **Unchecked** (Empty). The **Voice Description** will generally NOT be used unless the customer intends to use the M1 telephone remote control function with speech feedback, otherwise leave this blank.
- 4.12 Click **Send** to make sure all the above information is stored in the M1 Control. And don't forget to **Save** the file before exiting. We also recommend that you periodically perform a database backup of your EIKRP Account for safekeeping.

CAUTION: We do not recommend mixing other lighting technology products (brands) on the same M1 Control. If it becomes absolutely necessary for you to mix lighting brands then be certain to reserve all lighting device locations from 1 to 50 for Lutron Caséta Wireless. Mixing of lighting brands requires extreme care to make certain that no two brands are attempting to utilize the same Lighting Device number locations.

- 4.13 **DISCOVERY MODE:** This process is included in the ELK-M1XSLU for support of Lutron RA2. It is not required for Caséta, but it cannot be skipped or suspended. Upon power up or power cycle of the M1XSLU this process will automatically query the network for current devices and status. The Discovery process requires approximately ~2 1/4 minutes to complete, during which the status LED will flash rapidly. **Please wait until the M1XSLU Discovery Mode is complete. DO NOT TOUCH OR DISTURB anything until the rapid flashing changes to a slow 1 sec. flash.**

5 - Controlling Lutron Caséta Lights or Devices using Rules

- 5.1 Select **EIKRP > Automation > Rules**.
- 5.2 Click **New** to start a new Rule. Example: Turn ON a Flood Light whenever the System is Armed Away.
- 5.3 Click **WHENEVER > Security/Alarms > Is Armed > Armed Away**. Use the drop down arrow to select an area (partition) or click OK to accept the default "Area 1".
- 5.4 Click **THEN > Control Lighting > Individual**. Use the drop down arrow to a light. E.G. Flood Lights [6 (A6)].
- 5.5 Click **Turn On** followed by **OK**. The screen should resemble the following:

WHENEVER Smith Household (Area 8) IS ARMED AWAY
THEN TURN Flood Lights ([6 (A6)]) ON FADE RATE=0

- 5.6 Repeat for any additional lights. Click **DONE** to complete the Rule.
- 5.7 Make sure that EIKRP is connected and on-line with the M1 Control, then click **Send to Control**.

Device	Name	Format	Type	Opt	Show	V
1 (A1)	Smartbridge Pro	Serial Expander *	Dimmer	<input type="checkbox"/>	<input type="checkbox"/>	
2 (A2)	LR Lamp 1	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3 (A3)	LR Lamp 2	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4 (A4)	Ceiling Spots	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5 (A5)	Dining Rm	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 (A6)	Flood Lights	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7 (A7)	Mechanical	Serial Expander *	Dimmer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Then Operands are Turn Off, Turn On, Toggle (flip/flop), and Set to Level (Dim). Note: Dim levels can be used for virtual button presses on a Pico Remote or Smartbridge Pro (scenes). See Table 4.

Fade Rate - A dimmer device can be set to fade On/Off over time. Settings are: 0=none, 1=2 Secs, 2=4 Secs, 3=n/a, 4=n/a, 5=32 Secs, 6=46 Secs,

For (Duration) - Allows a duration to be set for the light, after which it will revert back to its previous state. Duration can be Days, Hrs, Min, Sec, or a Custom Setting selection.

This rule turns the Flood Lights ON for 30 seconds. They should turn OFF automatically 30 secs. after arming and leaving the building.

Button Presses - M1 has the ability to trigger Lutron virtual buttons (scenes).

To trigger a virtual button (scene), create a M1 rule to send a "Set to Level" command to Device ID #1 (the Lutron Smart Bridge Pro). Set the % (dim) value to a number from 1 to 50 according to the button (scene) to be triggered. The "Fade Rate" must be set to "0".

Example of a completed rule: **THEN SET Smartbridge (A1) to 3% Bright, FADE RATE=0** {This will trigger button 3 (scene 3) in the Smartbridge Pro and control any associated lights.} To trigger a different button (scene) simply change the % (dim) value.

Note: Percent % (dim) values 2 thru 20 @ Fade Rate=0 are reserved. This means it is not possible to directly control a Caséta Dimmer to % (dim) values 2 thru 20 UNLESS the Fade Rate is set to a value of 1, 2, 5, 6, or 7. The drawback is that setting a Caséta Dimmer to dim level 1 thru 20 cannot be immediate. Rather it will be slightly delayed by the value programmed as the Fade Rate.

Fade Rate Values: 0=immediate, 1=2 seconds, 2=4 seconds, 3=n/a, 4=n/a, 5=~32 seconds, 6=~46 seconds, 7=~60 seconds.

TABLE 4: Dim & Fade Rate options for Caseta Dimmers in ElkRP Lighting Rules

For Caseta Dimmers 2 thru 50 the following Dim Levels and Fade Rate options may be programmed

Dim Level	Result	Fade Rate	Dim Level	Result	Fade Rate
1	Sets Dim level to 1%	1,2,5,6,7	51	Sets Dim level to 51%	1,2,5,6,7
2	Sets Dim level to 2%	1,2,5,6,7	52	Sets Dim level to 52%	1,2,5,6,7
3	Sets Dim level to 3%	1,2,5,6,7	53	Sets Dim level to 53%	1,2,5,6,7
4	Sets Dim level to 4%	1,2,5,6,7	54	Sets Dim level to 54%	1,2,5,6,7
5	Sets Dim level to 5%	1,2,5,6,7	55	Sets Dim level to 55%	1,2,5,6,7
6	Sets Dim level to 6%	1,2,5,6,7	56	Sets Dim level to 56%	1,2,5,6,7
7	Sets Dim level to 7%	1,2,5,6,7	57	Sets Dim level to 57%	1,2,5,6,7
8	Sets Dim level to 8%	1,2,5,6,7	58	Sets Dim level to 58%	1,2,5,6,7
9	Sets Dim level to 9%	1,2,5,6,7	59	Sets Dim level to 59%	1,2,5,6,7
10	Sets Dim level to 10%	1,2,5,6,7	60	Sets Dim level to 60%	1,2,5,6,7
11	Sets Dim level to 11%	1,2,5,6,7	61	Sets Dim level to 61%	1,2,5,6,7
12	Sets Dim level to 12%	1,2,5,6,7	62	Sets Dim level to 62%	1,2,5,6,7
13	Sets Dim level to 13%	1,2,5,6,7	63	Sets Dim level to 63%	1,2,5,6,7
14	Sets Dim level to 14%	1,2,5,6,7	64	Sets Dim level to 64%	1,2,5,6,7
15	Sets Dim level to 15%	1,2,5,6,7	65	Sets Dim level to 65%	1,2,5,6,7
16	Sets Dim level to 16%	1,2,5,6,7	66	Sets Dim level to 66%	1,2,5,6,7
17	Sets Dim level to 17%	1,2,5,6,7	67	Sets Dim level to 67%	1,2,5,6,7
18	Sets Dim level to 18%	1,2,5,6,7	68	Sets Dim level to 68%	1,2,5,6,7
19	Sets Dim level to 19%	1,2,5,6,7	69	Sets Dim level to 69%	1,2,5,6,7
20	Sets Dim level to 20%	1,2,5,6,7	70	Sets Dim level to 70%	1,2,5,6,7
21	Sets Dim level to 21%	1,2,5,6,7	71	Sets Dim level to 71%	1,2,5,6,7
22	Sets Dim level to 22%	1,2,5,6,7	72	Sets Dim level to 72%	1,2,5,6,7
23	Sets Dim level to 23%	1,2,5,6,7	73	Sets Dim level to 73%	1,2,5,6,7
24	Sets Dim level to 24%	1,2,5,6,7	74	Sets Dim level to 74%	1,2,5,6,7
25	Sets Dim level to 25%	1,2,5,6,7	75	Sets Dim level to 75%	1,2,5,6,7
26	Sets Dim level to 26%	1,2,5,6,7	76	Sets Dim level to 76%	1,2,5,6,7
27	Sets Dim level to 27%	1,2,5,6,7	77	Sets Dim level to 77%	1,2,5,6,7
28	Sets Dim level to 28%	1,2,5,6,7	78	Sets Dim level to 78%	1,2,5,6,7
29	Sets Dim level to 29%	1,2,5,6,7	79	Sets Dim level to 79%	1,2,5,6,7
30	Sets Dim level to 30%	1,2,5,6,7	80	Sets Dim level to 80%	1,2,5,6,7
31	Sets Dim level to 31%	1,2,5,6,7	81	Sets Dim level to 81%	1,2,5,6,7
32	Sets Dim level to 32%	1,2,5,6,7	82	Sets Dim level to 82%	1,2,5,6,7
33	Sets Dim level to 33%	1,2,5,6,7	83	Sets Dim level to 83%	1,2,5,6,7
34	Sets Dim level to 34%	1,2,5,6,7	84	Sets Dim level to 84%	1,2,5,6,7
35	Sets Dim level to 35%	1,2,5,6,7	85	Sets Dim level to 85%	1,2,5,6,7
36	Sets Dim level to 36%	1,2,5,6,7	86	Sets Dim level to 86%	1,2,5,6,7
37	Sets Dim level to 37%	1,2,5,6,7	87	Sets Dim level to 87%	1,2,5,6,7
38	Sets Dim level to 38%	1,2,5,6,7	88	Sets Dim level to 88%	1,2,5,6,7
39	Sets Dim level to 39%	1,2,5,6,7	89	Sets Dim level to 89%	1,2,5,6,7
40	Sets Dim level to 40%	1,2,5,6,7	90	Sets Dim level to 90%	1,2,5,6,7
41	Sets Dim level to 41%	1,2,5,6,7	91	Sets Dim level to 91%	1,2,5,6,7
42	Sets Dim level to 42%	1,2,5,6,7	92	Sets Dim level to 92%	1,2,5,6,7
43	Sets Dim level to 43%	1,2,5,6,7	93	Sets Dim level to 93%	1,2,5,6,7
44	Sets Dim level to 44%	1,2,5,6,7	94	Sets Dim level to 94%	1,2,5,6,7
45	Sets Dim level to 45%	1,2,5,6,7	95	Sets Dim level to 95%	1,2,5,6,7
46	Sets Dim level to 46%	1,2,5,6,7	96	Sets Dim level to 96%	1,2,5,6,7
47	Sets Dim level to 47%	1,2,5,6,7	97	Sets Dim level to 97%	1,2,5,6,7
48	Sets Dim level to 48%	1,2,5,6,7	98	Sets Dim level to 98%	1,2,5,6,7
49	Sets Dim level to 49%	1,2,5,6,7	99	Sets Dim level to 99%	1,2,5,6,7
50	Sets Dim level to 50%	1,2,5,6,7	100	Sets Dim level to 100%	1,2,5,6,7

Fade Rate Values: 0=immediate, 1=2 seconds, 2=4 seconds, 3=n/a, 4=n/a, 5=~32 seconds, 6=~46 seconds, 7=~60 seconds.

NOTE: Security Flash & Security Solid - Lutron Caséta does not support Security Flash or Security Solid modes.

TABLE 5: Smartbridge Pro Scene Activations

Program M1 Lighting Device #1 to the following Dim Level and Fade Rate

M1 Lighting Device #1 (Smartbridge Pro)	Name assigned to the Smartbridge Pro Scene	Set to Level (Dim Level)	Fade Rate must be set to "0"
Button (Scene) #1		1	0
Button (Scene) #2		2	0
Button (Scene) #3		3	0
Button (Scene) #4		4	0
Button (Scene) #5		5	0
Button (Scene) #6		6	0
Button (Scene) #7		7	0
Button (Scene) #8		8	0
Button (Scene) #9		9	0
Button (Scene) #10		10	0
Button (Scene) #11		11	0
Button (Scene) #12		12	0
Button (Scene) #13		13	0
Button (Scene) #14		14	0
Button (Scene) #15		15	0
Button (Scene) #16		16	0
Button (Scene) #17		17	0
Button (Scene) #18		18	0
Button (Scene) #19		19	0
Button (Scene) #20		20	0
Button (Scene) #21		21	0
Button (Scene) #22		22	0
Button (Scene) #23		23	0
Button (Scene) #24		24	0
Button (Scene) #25		25	0
Button (Scene) #26		26	0
Button (Scene) #27		27	0
Button (Scene) #28		28	0
Button (Scene) #29		29	0
Button (Scene) #30		30	0
Button (Scene) #31		31	0
Button (Scene) #32		32	0
Button (Scene) #33		33	0
Button (Scene) #34		34	0
Button (Scene) #35		35	0
Button (Scene) #36		36	0
Button (Scene) #37		37	0
Button (Scene) #38		38	0
Button (Scene) #39		39	0
Button (Scene) #40		40	0
Button (Scene) #41		41	0
Button (Scene) #42		42	0
Button (Scene) #43		43	0
Button (Scene) #44		44	0
Button (Scene) #45		45	0
Button (Scene) #46		46	0
Button (Scene) #47		47	0
Button (Scene) #48		48	0
Button (Scene) #49		49	0
Button (Scene) #50		50	0

Example of a rule triggering a programmed Scene that has been stored in the Smartbridge Pro.

WHENEVER Smith Household (Area 8) IS ARMED AWAY
 THEN SET Smartbridge Pro [1(A1)] TO 3% BRIGHT, FADE RATE=0

