Partner: Lutron
Model: HomeWorks QSX
Device Type: Lighting

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GENERAL INFORMATION

SIMPLWINDOWS NAME:	Lutron HomeWorks QSX Command Processor v1.2
CATEGORY:	Lighting, HVAC, Shades
VERSION:	1.2
SUMMARY:	This module controls IP communication with the Lutron HomeWorks QSX processor.
GENERAL NOTES:	This module acts as the primary communication interface to a single Lutron processor. If multiple Lutron processors are required, one command processor module for reach Lutron processor can be added to the solution. IMPORTANT: A username and password must be set on your QSX processor. To do this in the Lutron Designer software's toolbar, navigate to Tools > Configure Integration > Integration Logins. Once you're in that window, press the 'Add Integration Login' button. From here you will be able to properly set credentials on your QSX processor.
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series processor. Crestron 4-Series processor.
SETUP OF CRESTRON HARDWARE:	Crestron CP3 Crestron MC4
VENDOR FIRMWARE:	22.02.16f000
VENDOR SETUP:	Lutron HomeWorks QSX Processor

PARAMETER:

Command_Processor_ID	Setting indicates the unique identifier of the command processor module. A single program can contain multiple command processor modules where multiple Lutron processors are involved. Each command processor module must have a unique ID.
IP_Address	Setting indicates the default IP address of the Lutron processor used when the module initializes.
Username	Setting indicates the username credential for authenticating to the Lutron QSX processor.
Password	Setting indicates the password credential for authenticating to the Lutron QSX processor.

CONTROL:

Connect	D	Pulse to establish communication with the Lutron processor and start the module "heartbeat" which is used to maintain communication with the Lutron processor by periodically sending ping requests to confirm the Lutron processor is still communicating with the control system.
Disconnect	D	Pulse to break communication with the Lutron processor and stop the module "heartbeat".
Debug	D	Latch high to enable extended debug output that will be printed to the Toolbox Console.
IP_Address	S	Set a new string value to change the working IP address of the module. Setting a new IP address forces the module to reinitialize. The string format must be: "X.X.X.X".

FEEDBACK:

Is_Communicating	D	High indicates that communication has been established with the Lutron processor. Once communication has been established, the module will start sending periodic heartbeats to the device.
Is_Initialized	D	High indicates the module is initialized. The command processor is only initialized when all modules registered to the command processor module are also initialized.

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TESTING:

OPS USED FOR TESTING:	CP3 1.8001.4788.20471 MC4 2.7000.00052
SIMPL WINDOWS USED FOR TESTING:	4.20
CRES DB USED FOR TESTING:	211.0500.001.00
DEVICE DATABASE:	200.17500.001.00
SYMBOL LIBRARY USED FOR TESTING:	1164
SAMPLE PROGRAM:	Lutron HomeWorks QSX v1.2 Demo IP.smw
REVISION HISTORY:	v1.0 – Initial Release v1.1 – No changes have been made v1.2 – Added Single Setpoint HVAC, Dual Setpoint HVAC, DALI CCT Zone, and Open Clos Stop control components.