

# LUMIA BASED STRAM CONTROLLER SETUP GUIDE

## INTRODUCTION

### PARTS REQUIRED:

ESP8266  
PICO PI  
36 OF 1N4148 SIGNAL DIODES  
36 OF MECHANICAL KEYS  
1.8" RGB LCD TFT ST7735

### FILES REQUIRED:

ESP8266:  
LUMI\_CON\_ESP\_INETRAGED\_0\_0\_1  
PICO PI:  
6X6\_TEST\_PICO

LUMIA (PICK ONE):

FOR JUST CHAT;  
ESP8266-TFT-CHAT-BRIDGE

FOR JUST 6X6;  
6X6 ISOLATED

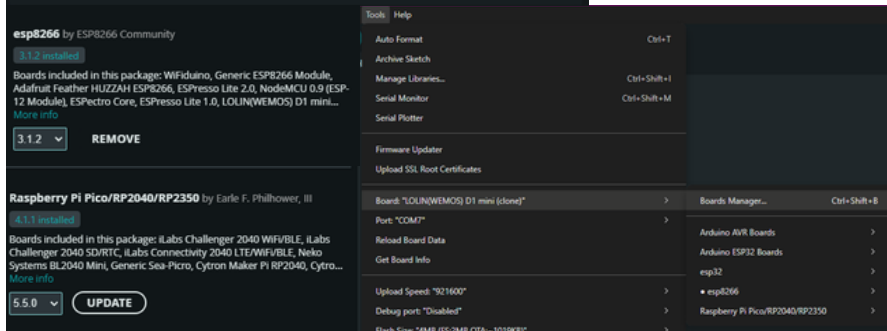
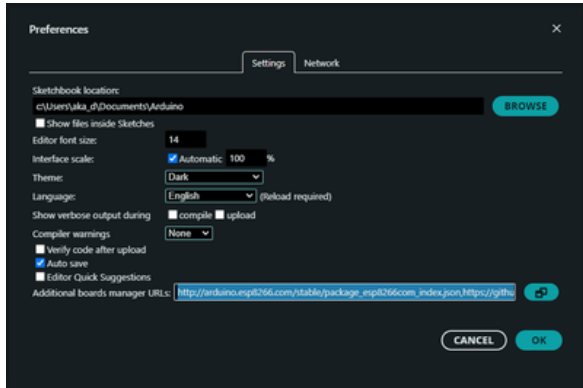
FOR BOTH;  
LUMI\_CON\_ESP\_INETRAGED\_0\_0\_1



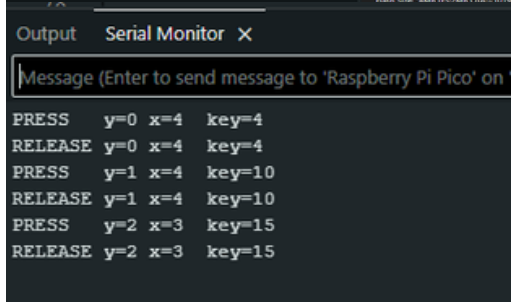
# LUMIA BASED STRAM CONTROLLER SETUP GUIDE

## FIRMWARE

**FLASHING FIRMWARE:**  
HEAD OVER TO [HTTPS://WWW.ARDUINO.CC/](https://www.arduino.cc/) AND DOWNLOAD THE IDE. ONCE DOWNLOADED OPEN THE SOFTWARE AND HEAD TO PREFERENCES AND ADD THE URL CONTAINED IN THE “BOARD MANAGER URL” TXT. THEN PROCEED TO TOOLS-->BOARDS-->BOARD MANAGER. INSTALL THE BOARDS PICTURED (PICO PI AND ESP8266).



**PLUG THE PICO INTO THE PC VIA USB CABLE, PASTE THE FIRMWARE LABELLED 6X6\_TEST\_PICO INTO ARDUINO AND CLICK UPLOAD, UPON PRESSING KEYS A CONFIRMATION SHOULD BE SENT BACK VIA THE SERIAL MONITOR.**

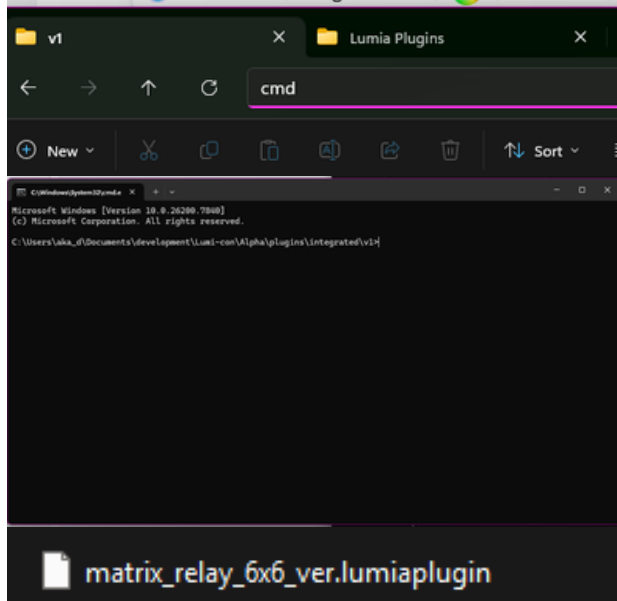


**NOW, PLUG THE ESP INTO THE USB, ENSURE THE RX PIN IS DISCONNECTED FROM THE PICO DURING FLASH. AND PASTE IN THE “LUMICON\_ESP\_INTEGRATED” INTO THE IDE. HIT UPLOAD. UPON SUCCESSFUL RECEIPT OF A BUTTON PRESS THE ESP’S INTEGRATED LED WILL FLASH.**

# LUMIA BASED STRAM CONTROLLER SETUP GUIDE

## PLUGIN

**SETUP: FIRST STEP IS TO CREATE A NEW FOLDER. NAME IT SOMETHING RECOGNISABLE. DETERMINE WHICH VERSION OF THE PLUGIN YOU WISH TO USE AND PASTE THE FILES INTO YOUR FOLDER**



**IN THE ADDRESS BAR AT THE TOP OF YOUR FILE EXPLORER TYPE CMD AND A COMMAND PROMPT SHOULD APPEAR. TYPE THE FOLLOWING LINES IN TO THE COMMAND PROMPT:**

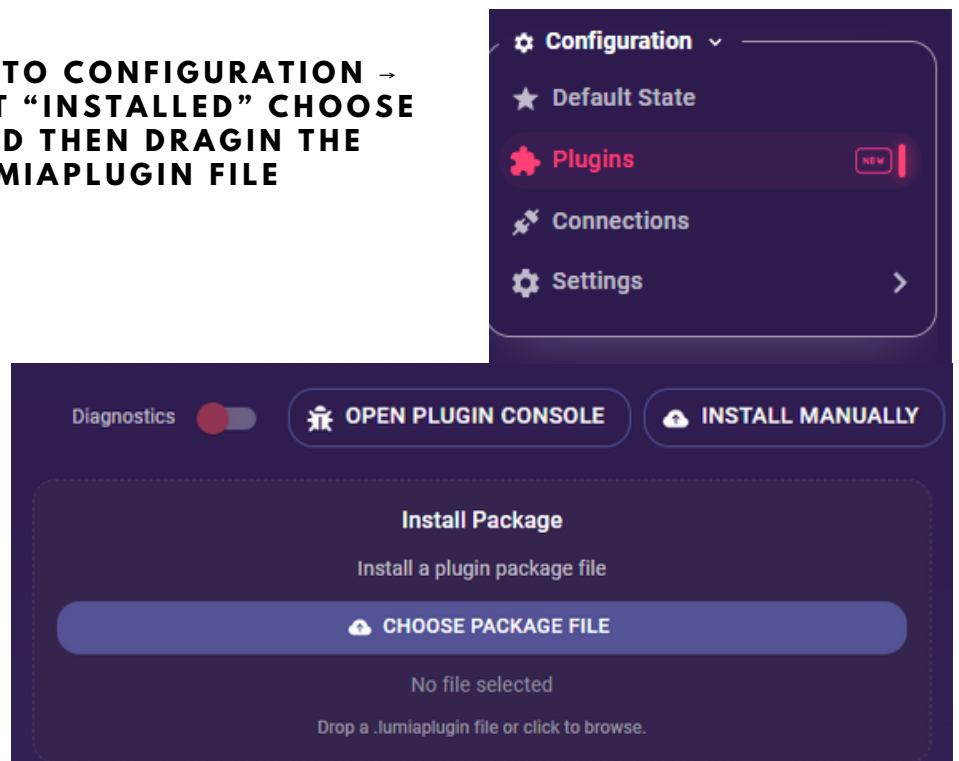
**NPM INSTALL**

**NPX LUMIA-PLUGIN VALIDATE .**

**NPX LUMIA-PLUGIN BUILD . --OUT .\MY\_LUMIA\_PLUGIN.LUMIAPLUGIN**

**BE SURE TO CHANGE “MY\_LUMIA\_PLUGIN” TO YOUR DESIRED NAME IT SHOULD THEN CREATE A .LUMIAPLUGIN FILE**

**INSIDE LUMIA HEAD TO CONFIGURATION → PLUGINS AND SLEECT “INSTALLED” CHOOSE MANUAL INSTALL AND THEN DRAGIN THE NEWLY CREATED .LUMIAPLUGIN FILE**



# LUMIA BASED STRAM CONTROLLER SETUP GUIDE

## PLUGIN

A CONFIRMATION SCRENE WILL APEAR, FOR THE VERSIONS USING THE LCD THE DEVICE IP WILL BE DISPLAYED AFTER SUCCESFULL WIFI CONNECITON (SEE WIFI SETUP GUIDE) SIMPLY ADD THIS TO THE FEILD AND LUMIA SHOULD NOW BE ABLE TO UPDATE THE LCD

Exp8266\_tft\_chat\_bridge Setup

ESP Base URL

Example: http://192.168.1.50 (no trailing slash)

HTTP Timeout (ms)

Timeout waiting for the ESP to respond

Message Path

Your ESP sketch uses /msg+

Clear Path

Your ESP sketch uses /clear

HIT SAVE AND ALERTS/  
ACTIONS SHOULD NOW  
APPEAR

Enable Listener  
Turns the HTTP listener on/off.

Listen Port

ESP will POST events to http://this-gui-goes-here

Shared Secret (Optional)

If you ESP must send header & Matrix Secret matching this value

ESP Base URL

Example: http://192.168.1.50 (no trailing slash)

ESP is Mode  
Legacy GET (/Msg + /Status + /Clear)

We require get new devices to at just later without changing actions

HTTP Timeout (ms)

Timeout waiting for the ESP to respond

Message Path

Legacy GET mode your ESP uses /msg+

Status Path

Legacy GET mode your ESP uses /status+

Clear Path

Legacy GET mode your ESP uses /clear

UI Path

Legacy GET mode your ESP uses /ui

UI POST mode endpoint default: /ui

Strip Chat Profiles

## 6X6 AND CHAT ONLY PLUGINS

Matrix Relay (6x6 Ver)

6x6 long

6x6 short

Action Source  
ESP8266 TFT Chat Bridge

Type  
Select an action type

Display Message

Clear Screen

Internal

- Lumia
- Overlay
- Api
- Command Runner
- Key/Mouse Outputs

Integrations

- Twitch
- Youtube
- Discord
- OBS
- Spotify
- Serial
- Lumi-Con Bridge (Integrated)

Add Variation

Name

Condition  
Which Key (0-35). Compares Against Dynamic.Value.

Condition Value

Lumi-Con Bridge (Integrate...)

6x6 long

6x6 short

Key 0

Key 1

Key 2

Key 3

Key 4

Key 5

Key 6

Key 7

Key 8

Key 9

lumi\_con\_bridge\_integrated-alert: lumi\_con\_bridge\_integrated-matrix\_6x6\_short 15 22:29:06

Quit

## INTEGRATED DUAL PLUGIN

Type  
Select an action type

Display Message

Status Message

Clear Screen

Internal

- Lumia
- Overlay
- Api
- Command Runner
- Key/Mouse Outputs

Integrations

- Twitch
- Youtube
- Discord
- OBS
- Spotify
- Serial
- Lumi-Con Bridge (Integrated)