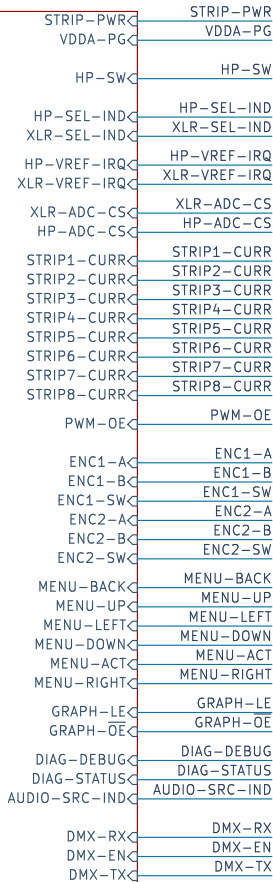


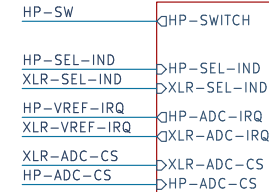
MICROCONTROLLER



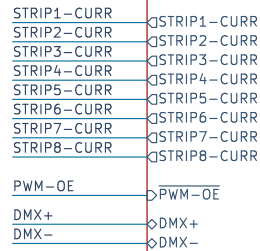
POWER



AUDIO INPUTS



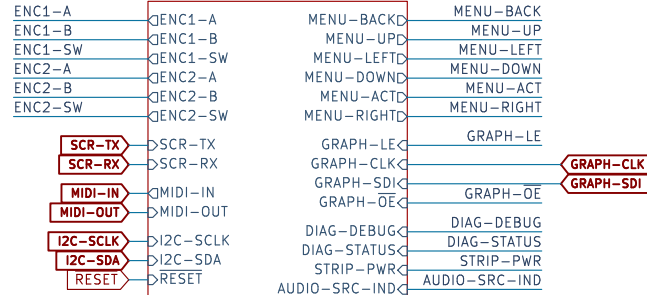
RGB CONTROL



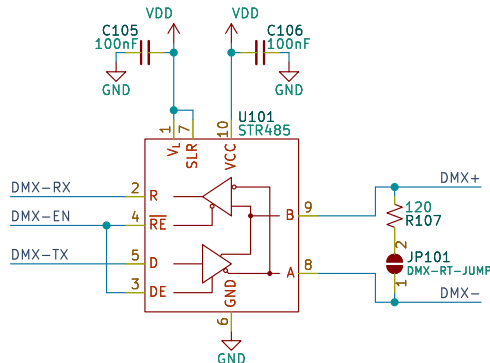
TEST POINTS



INTERFACE CONNECTOR



DMX TRANSEIVER



General Information

Power Rails	Description
+12V 12V	12V input from external SMPS
VDrive 12V	Switched 12V Supply for the LED strips
VCC 5V	5V Digital Supply
VDD 3.3V	3.3V Digital Supply
VDDA 3.3V	3.3V Low Noise Analog Supply
Audio	Description
XLR-REF	Reference voltage for XLR audio. -2V
HP-REF	Reference voltage for the headphone audio input. -0.8V

Daxxn Industries

Sheet: /
File: LightDrum.kicad_sch

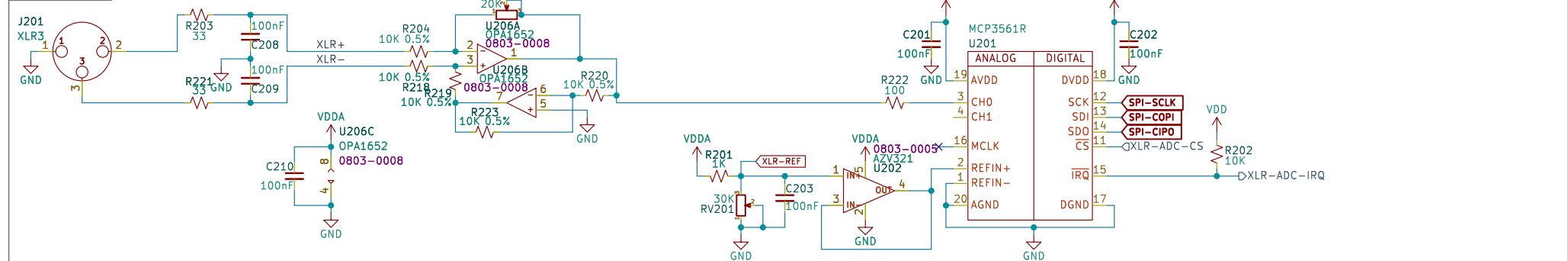
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Size: A4 Date:
KiCad E.D.A. kicad (7.0.0)

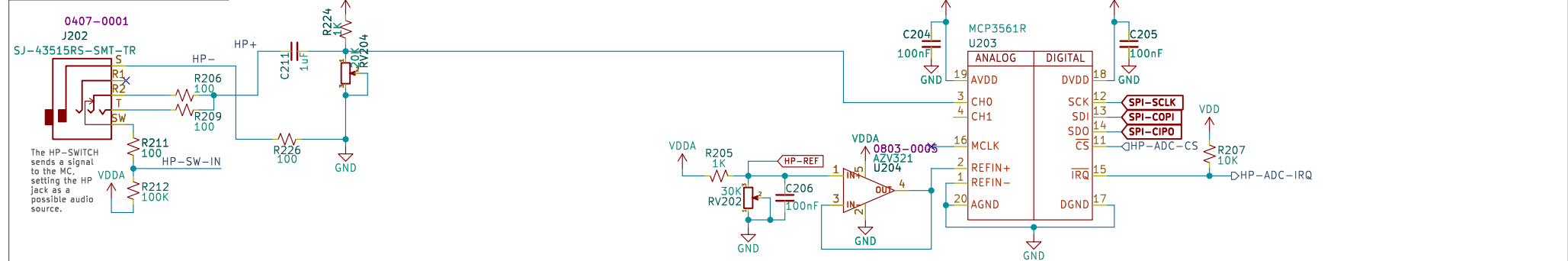
Rev: REV10
Id: 1/13

AUDIO ADCS

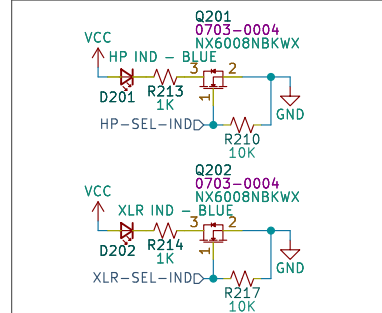
XLR INPUT



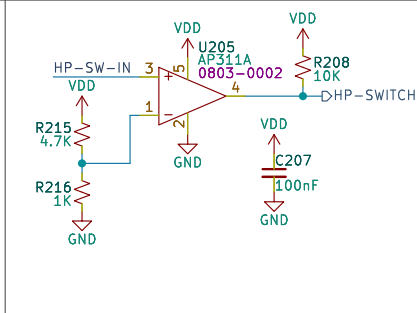
HEADPHONE JACK INPUT



AUDIO SOURCE INDICATORS



HEADPHONE SWITCH CONTROL



Daxxn Industries

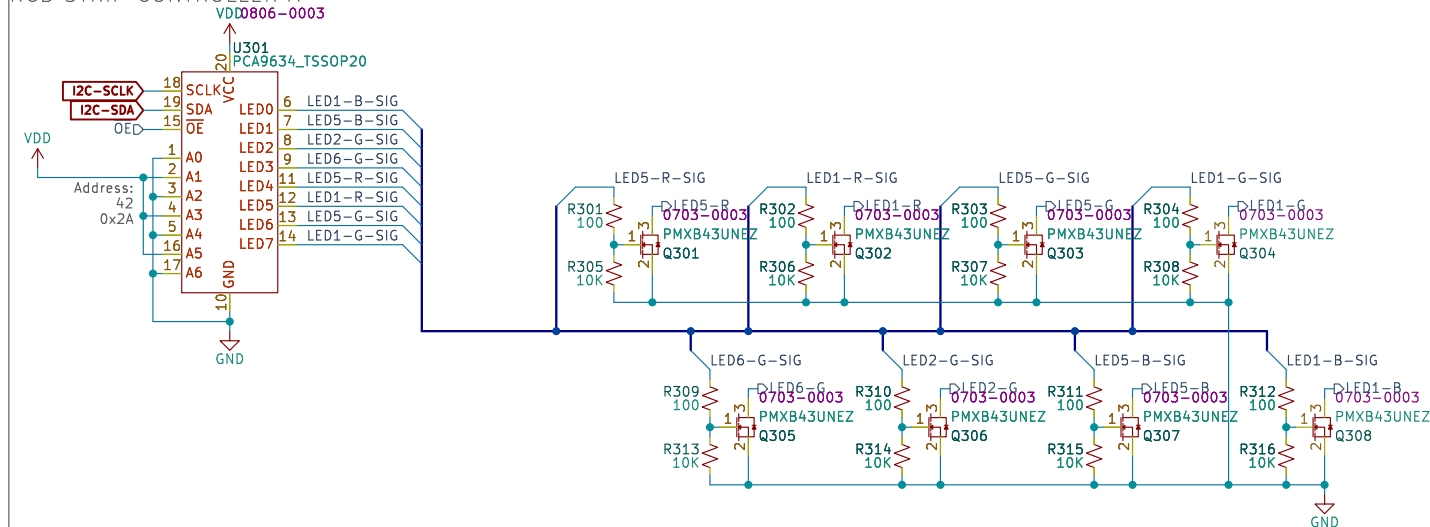
Sheet: /AUDIO INPUTS/
File: Audio-Inputs.kicad_sch

Title: LightDrum

Size: A4
KiCad E.D.A. kicad (7.0.0)

Rev: REV10
Id: 2/13

RGB STRIP CONTROLLER A



Daxxn Industries

Sheet: /RGB CONTROL/RGB Control 1/

File: RGB_Control-1.kicad_sch

Title: LightDrum

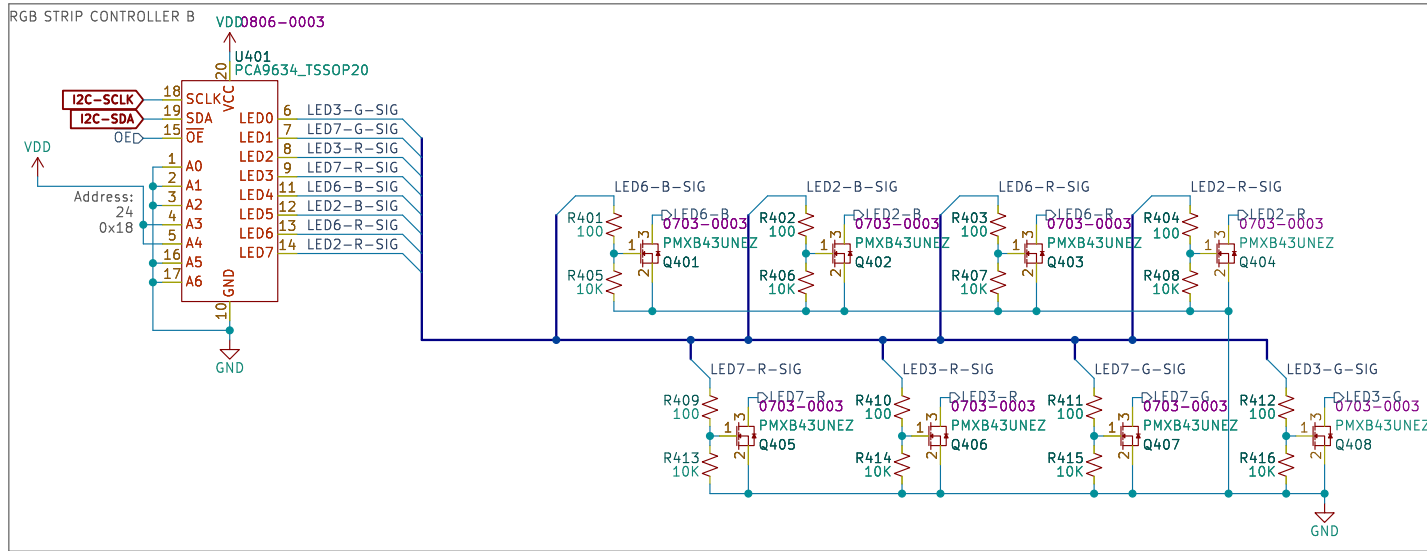
Size: A4

Date:

KiCad E.D.A. kicad (7.0.0)

Rev: REV10

Id: 7/13



Daxxn Industries

Sheet: /RGB CONTROL/RGB Control 2/

File: RGB_Control-2.kicad_sch

Title: LightDrum

Size: A4

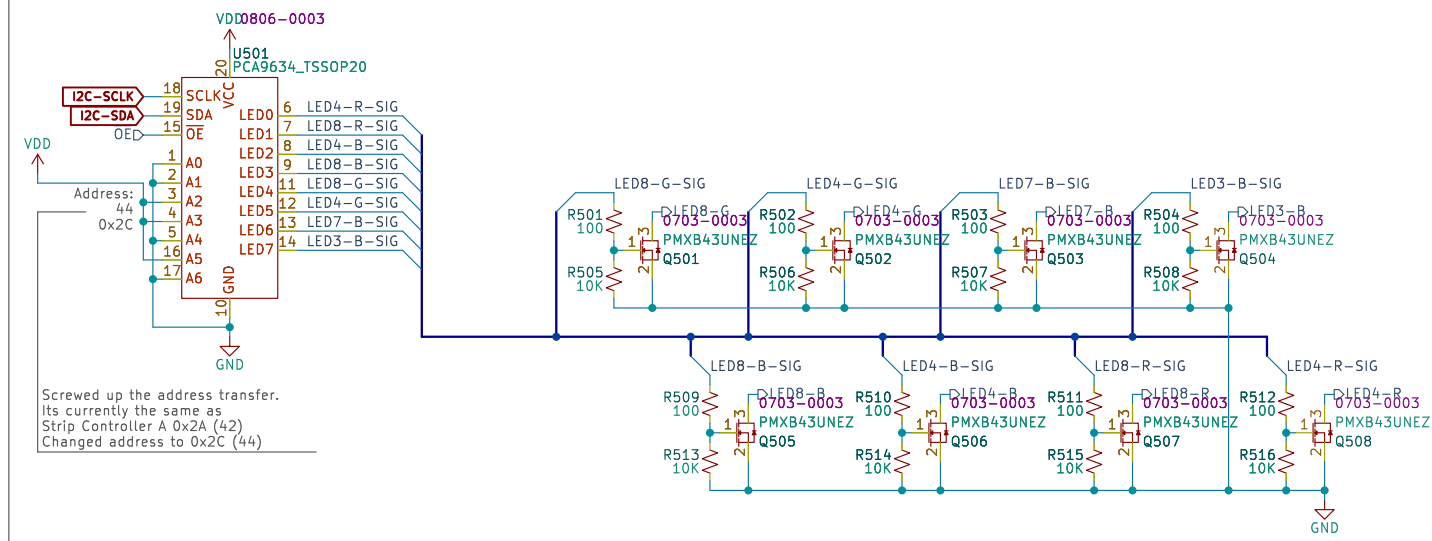
Date:

Rev: REV10

KiCad E.D.A. kicad (7.0.0)

Id: 8/13

RGB STRIP CONTROLLER C



Daxxn Industries

Sheet: /RGB CONTROL/RGB Control 3/
File: RGB_Control-3.kicad_sch

Title: LightDrum

Size: A4

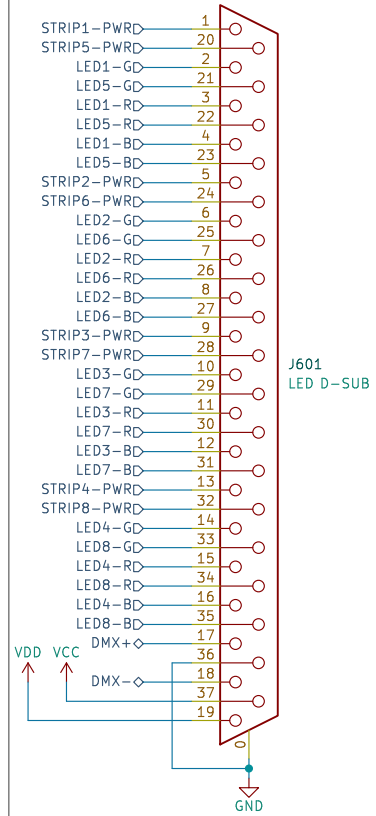
Date:

KiCad E.D.A. kicad (7.0.0)

Rev: REV10

Id: 9/13

RGB STRIP CONNECTOR



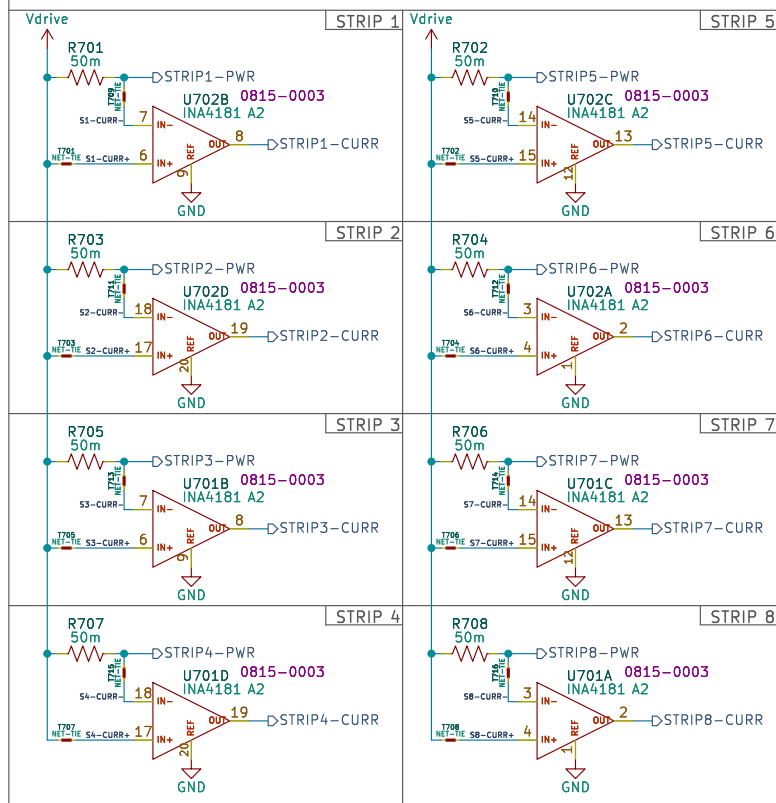
Daxxn Industries

Sheet: /RGB CONTROL/Strip Connector/
File: Strip_Connector.kicad_sch

Title: LightDrum

Size: A4	Date:	Rev: REV10
KiCad E.D.A. kicad (7.0.0)		Id: 10/13

RGB CURRENT MONITORS



Daxxn Industries

Sheet: /RGB CONTROL/Strip Current Monitors/

File: Strip_CM.kicad_sch

Title: LightDrum

Size: A4

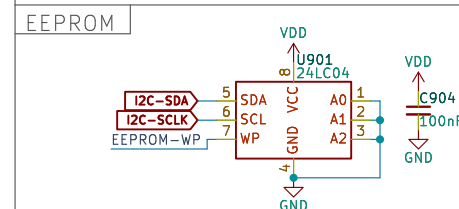
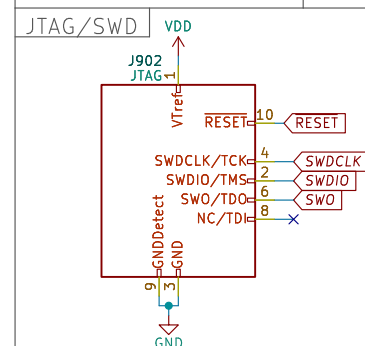
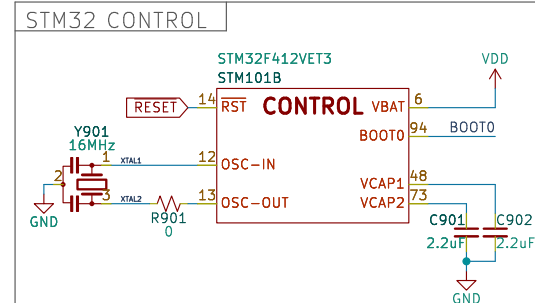
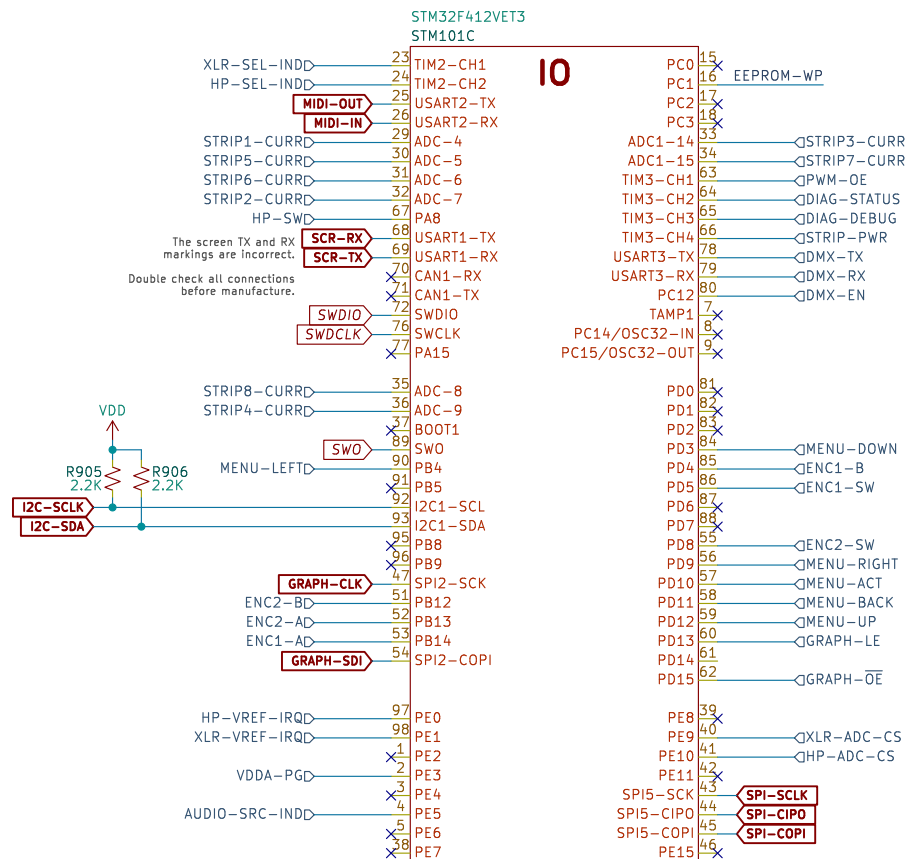
Date:

Rev: REV10

KiCad E.D.A. kicad (7.0.0)

Id: 11/13

STM32 10



Daxxn Industries

Sheet: /MICROCONTROLLER/
File: Micro.kicad_sch

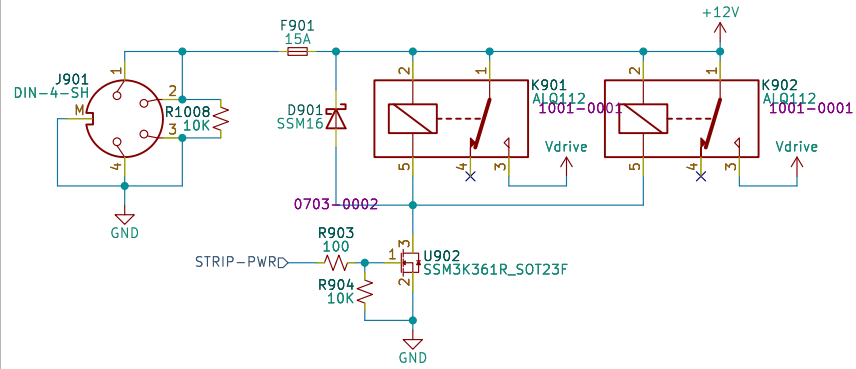
Title: LightDrum

Size: A4	Date:
KiCad E.D.A. kicad (7.0.0)	

Rev: REV10
Id: 13/13

RGB STRIP POWER LOCKOUT

Uses new 12V 196W power supply. Both relays are required for increasing current capacity.



Daxxn Industries

Sheet: /POWER/LED_Power_Control/
File: LED_Power_Control.kicad_sch

Title: LightDrum

Size: A4

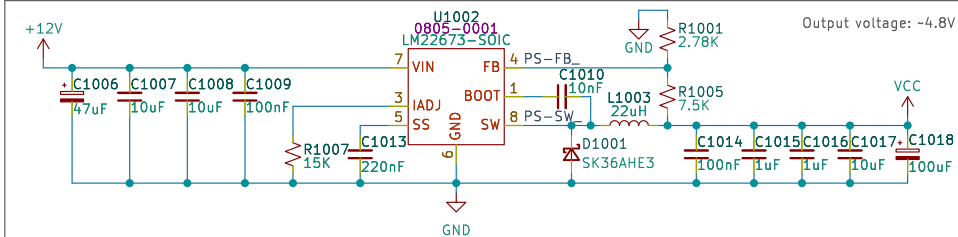
Date:

Rev: REV10

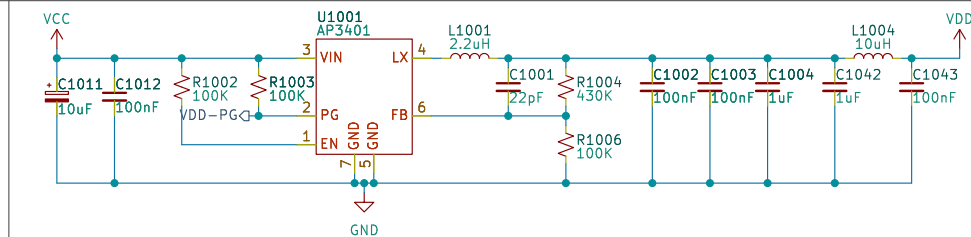
KiCad E.D.A. kicad (7.0.0)

Id: 14/13

5V REGULATOR

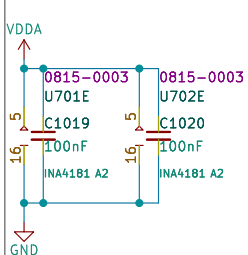


3.3V REGULATOR

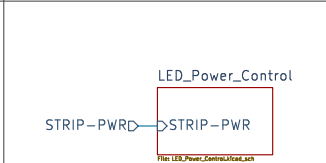


DECOUPLING

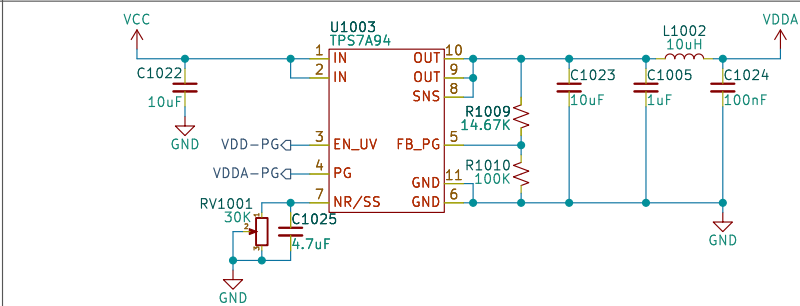
CURRENT MONITORS



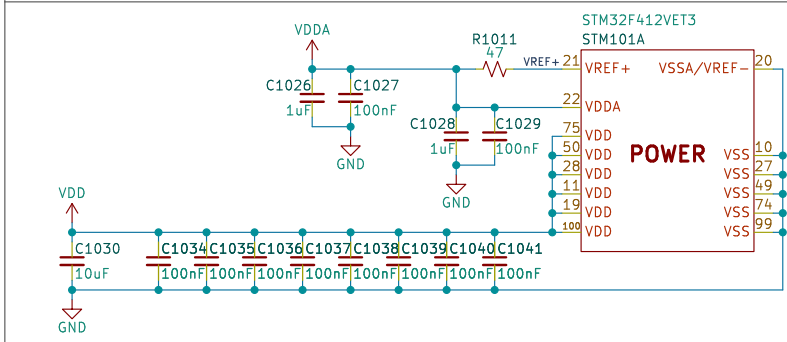
LED STRIP POWER LOCKOUT



PRECISION ANALOG REGULATOR



STM32 POWER SUPPLY



Daxxn Industries

Sheet: /POWER/
File: Power.kicad_sch

Title: LightDrum

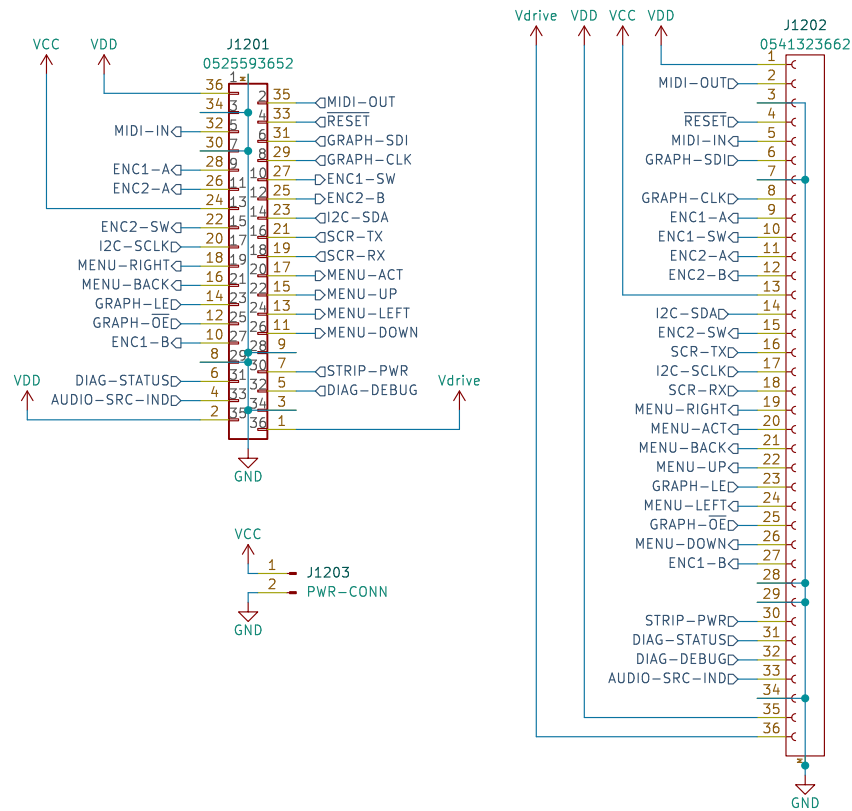
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KiCad E.D.A. kicad (7.0.0)

Date:

Rev: REV10

Id: 15/13

MATCHING CONN ON INTERFACE PCB
NOT POPULATED



Daxxn Industries

Sheet: /INTERFACE CONNECTOR/
File: Interface_Connectors.kicad_sch

Title: **LightDrum**

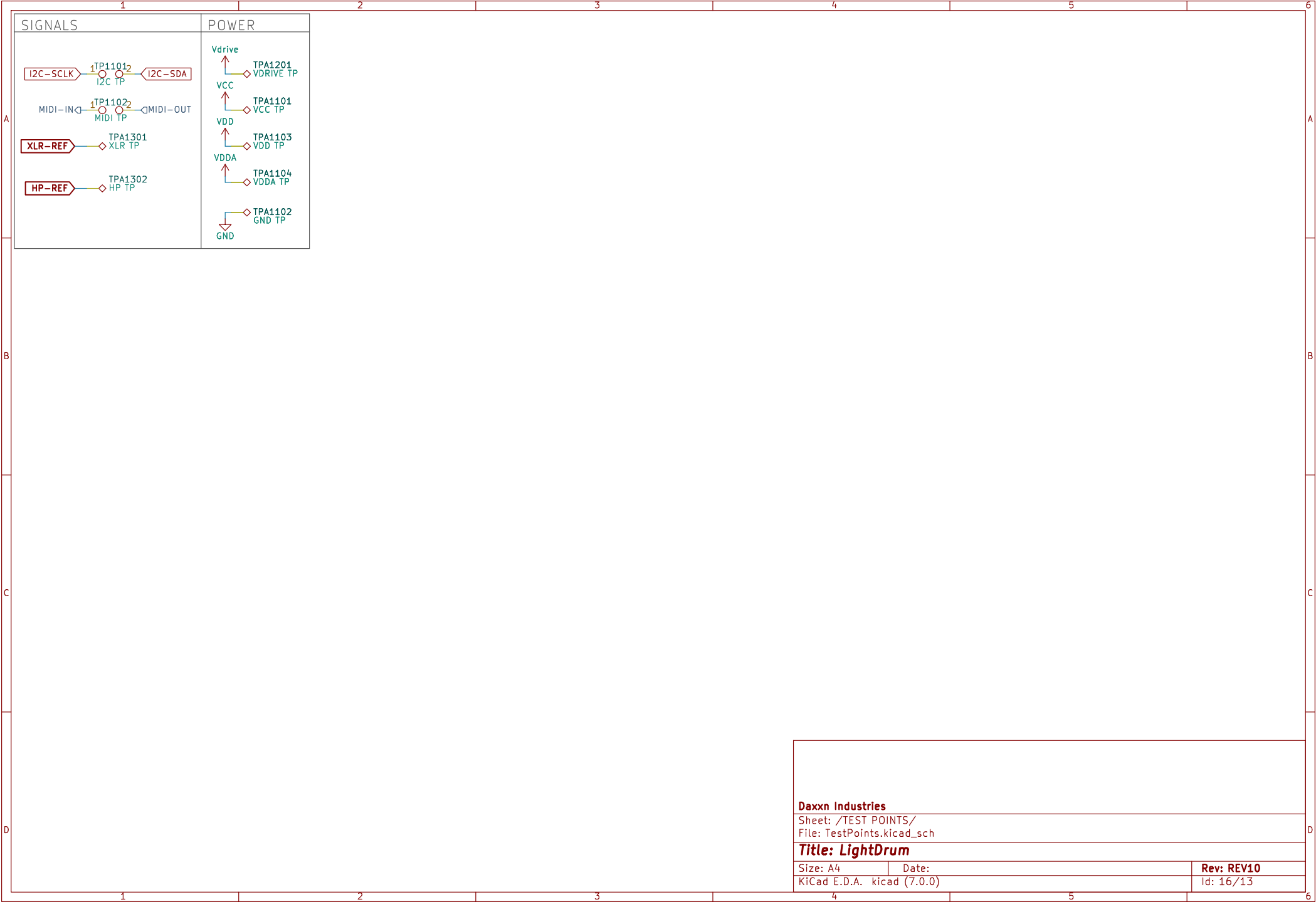
Size: A4

Date:

KiCad E.D.A. kicad (7.0.0)

Rev: **REV10**

Id: 16/13



Daxxn Industries

Sheet: /TEST POINTS/
File: TestPoints.kicad_sch

Title: LightDrum

Size: A4Date:Rev: REV10

KiCad E.D.A. kicad (7.0.0)Id: 16/13