

A

A

B

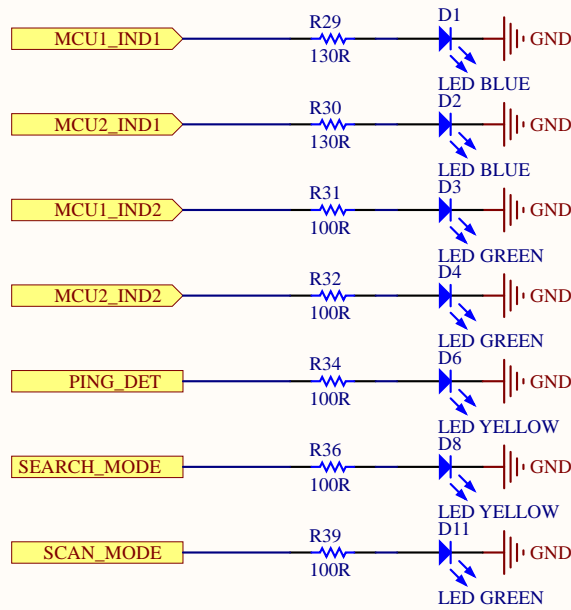
B

C

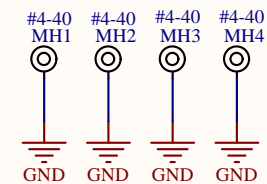
C

D

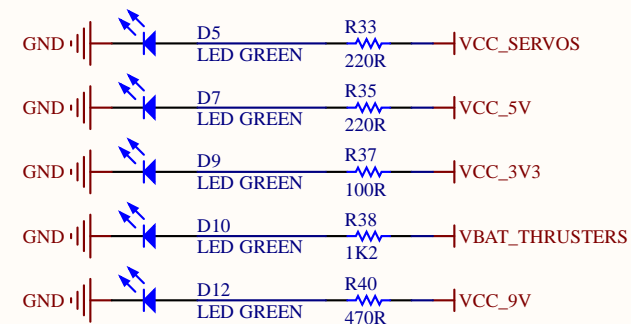
D



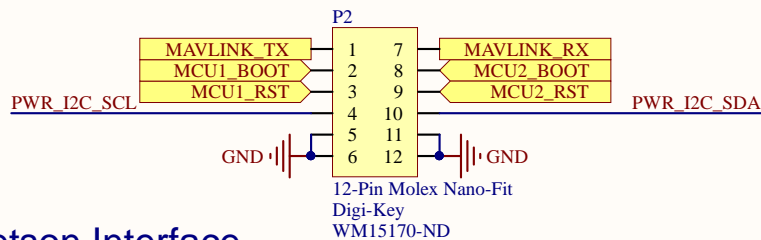
MCU LED Indicators



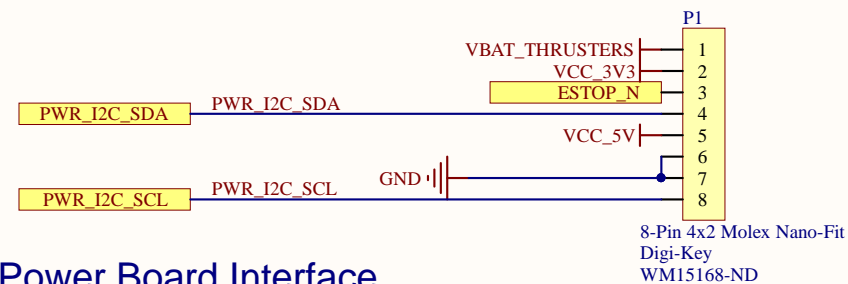
Mounting holes



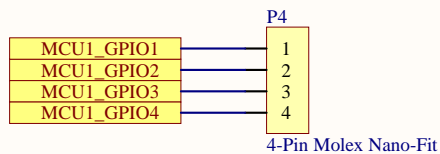
Power Indicators



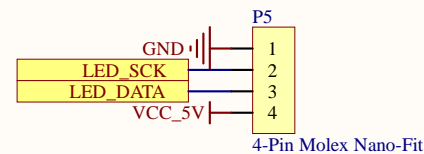
Jetson Interface



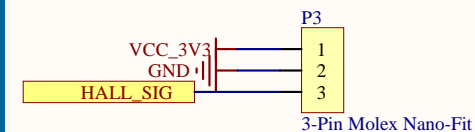
Power Board Interface



GPIO



DotStar LEDs



Kill Switch

Title

Interface

Size

A

Number

Revision

Date:

5/9/2019

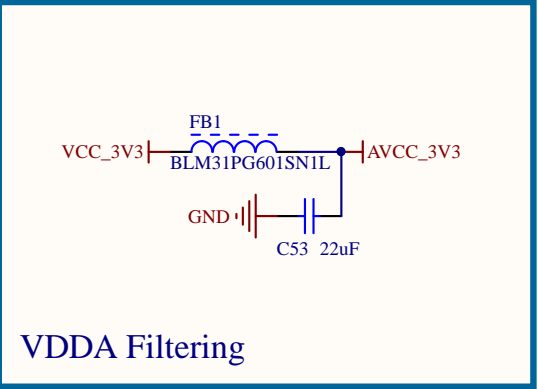
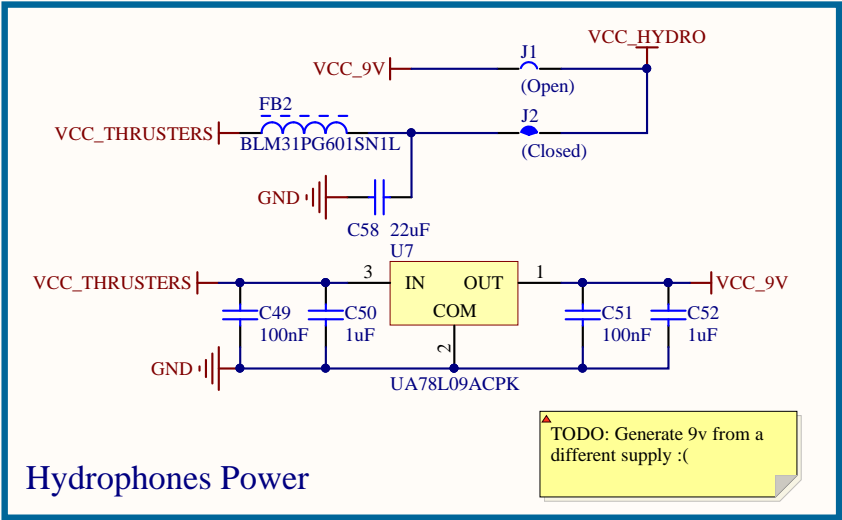
Sheet

of

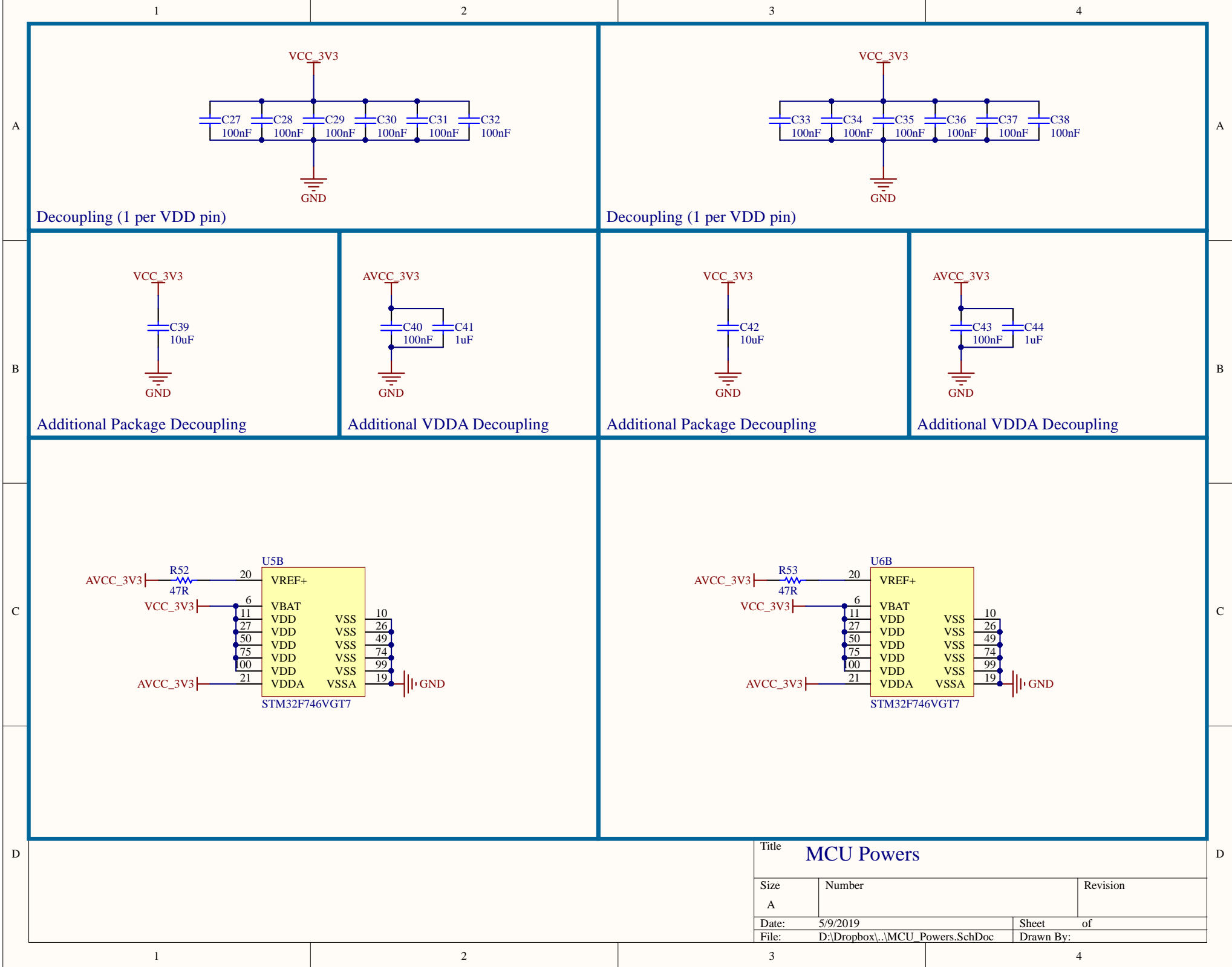
File:

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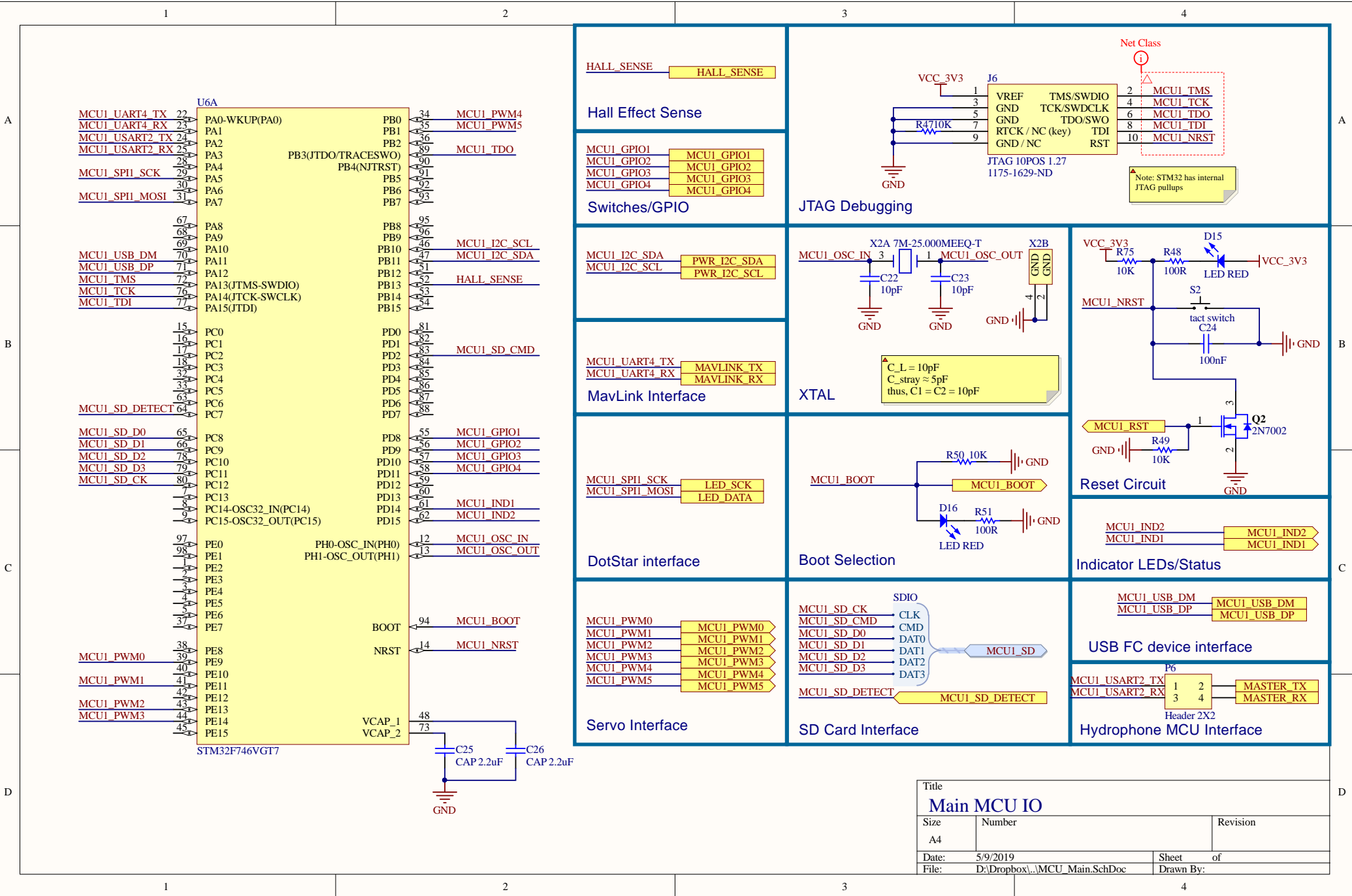
Drawn By:



Title			
Power Supplies			
Size	Number		Revision
A			
Date:	5/9/2019	Sheet	of
File:	D:\Dropbox\...\Power.SchDoc	Drawn By:	

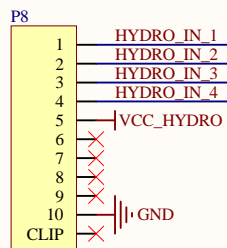


Title			MCU Powers
Size	Number		Revision
A			
Date:	5/9/2019	Sheet	of
File:	D:\Dropbox\...\MCU_Powers.SchDoc	Drawn By:	



Title			
Main MCU IO			
Size	Number		Revision
A4			
Date:	5/9/2019		Sheet of
File:	D:\Dropbox\...\MCU_Main.SchDoc		Drawn By:





10-Pin 5x2 Molex Nano-Fit Vertical  
Digi-Key  
WM15120-ND

max 5v RMS input

HYDRO\_IN\_1

low-pass stage

R3

C4

10nF

GND

high-pass and biasing

AVCC\_3V3

C3

R2

3K24 1%

R6

3K24 1%

GND

Attenuation and buffering

R4

10K

AVCC\_3V3

R5

10K

R7

10K

GND

U1

LMC7101AIM5X

Output

R76

270R

TP1

HYDRO1

max 5v RMS input

HYDRO\_IN\_2

low-pass stage

R10

270R

C8

10nF

GND

high-pass and biasing

AVCC\_3V3

C7

R9

3K24 1%

R13

3K24 1%

GND

Attenuation and buffering

R11

10K

AVCC\_3V3

R12

10K

R14

10K

GND

U2

LMC7101AIM5X

Output

R77

270R

TP2

HYDRO2

max 5v RMS input

HYDRO\_IN\_3

low-pass stage

R17

270R

C12

10nF

GND

high-pass and biasing

AVCC\_3V3

C11

R16

3K24 1%

R20

3K24 1%

GND

Attenuation and buffering

R18

10K

AVCC\_3V3

R19

10K

R21

10K

GND

U3

LMC7101AIM5X

Output

R78

270R

TP3

HYDRO3

max 5v RMS input

HYDRO\_IN\_4

low-pass stage

R24

270R

C16

10nF

GND

high-pass and biasing

AVCC\_3V3

C15

R23

3K24 1%

R27

3K24 1%

GND

Attenuation and buffering

R25

10K

AVCC\_3V3

R26

10K

R28

10K

GND

U4

LMC7101AIM5X

Output

R79

270R

TP4

HYDRO4

Title

Hydrophone conditioning

Size

A

Number

Revision

Date:

5/9/2019

Sheet of

File:

D:\Dropbox\...\Hydrophones.SchDoc

Drawn By:

1

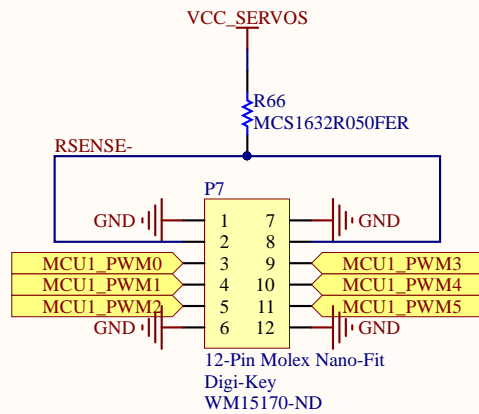
2

3

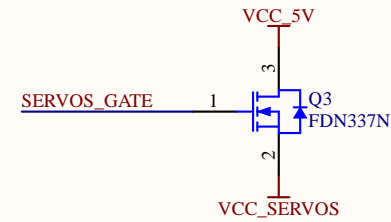
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5

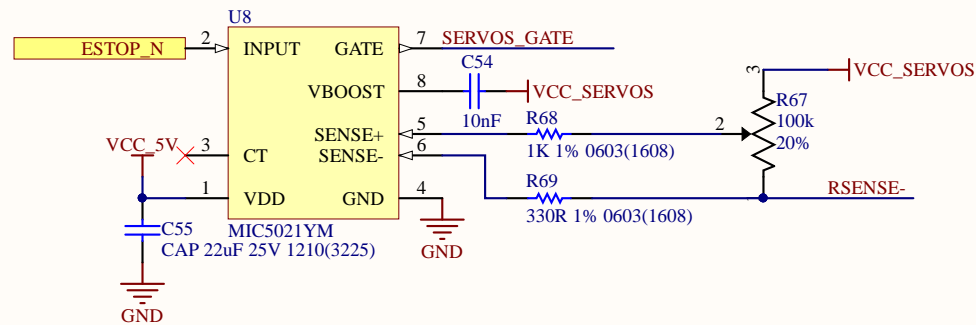
6



Servo connector



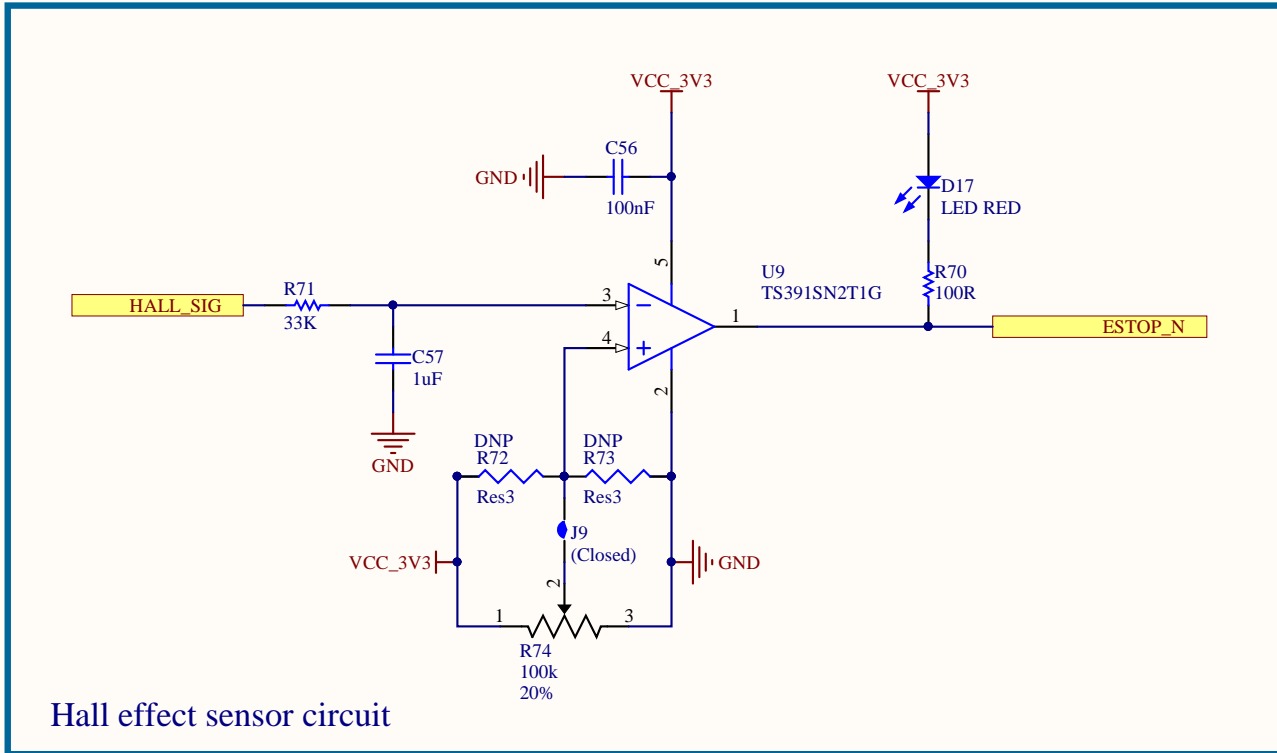
Servo Disconnect Switch



Servo Disconnect gate driver and overcurrent

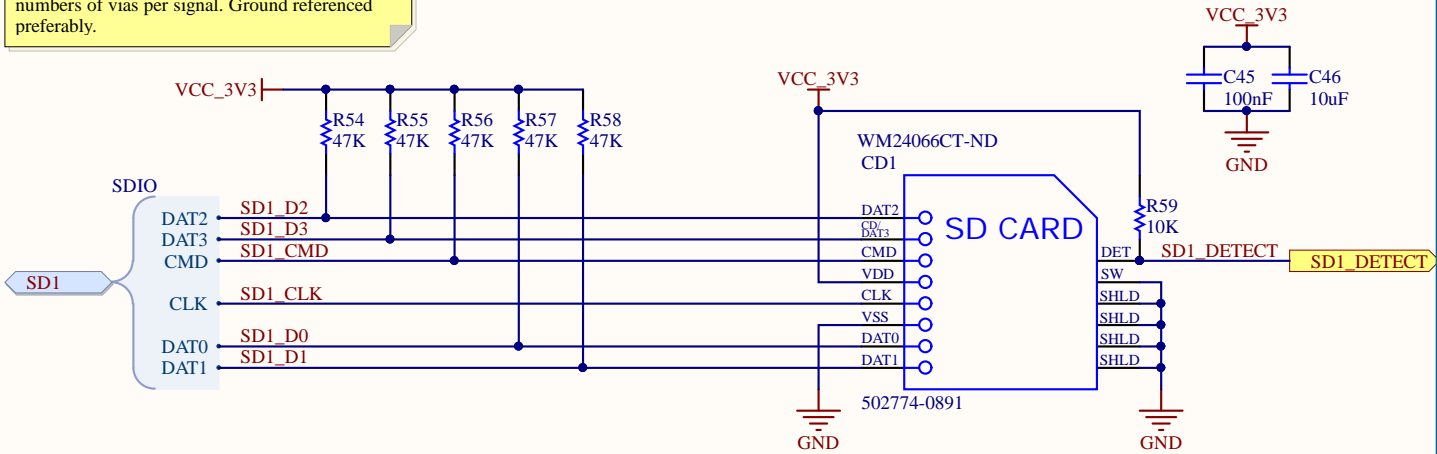
Title		
Servos		
Size	Number	Revision
A		
Date:	5/9/2019	Sheet of
File:	D:\Dropbox\...\Servos.SchDoc	Drawn By:





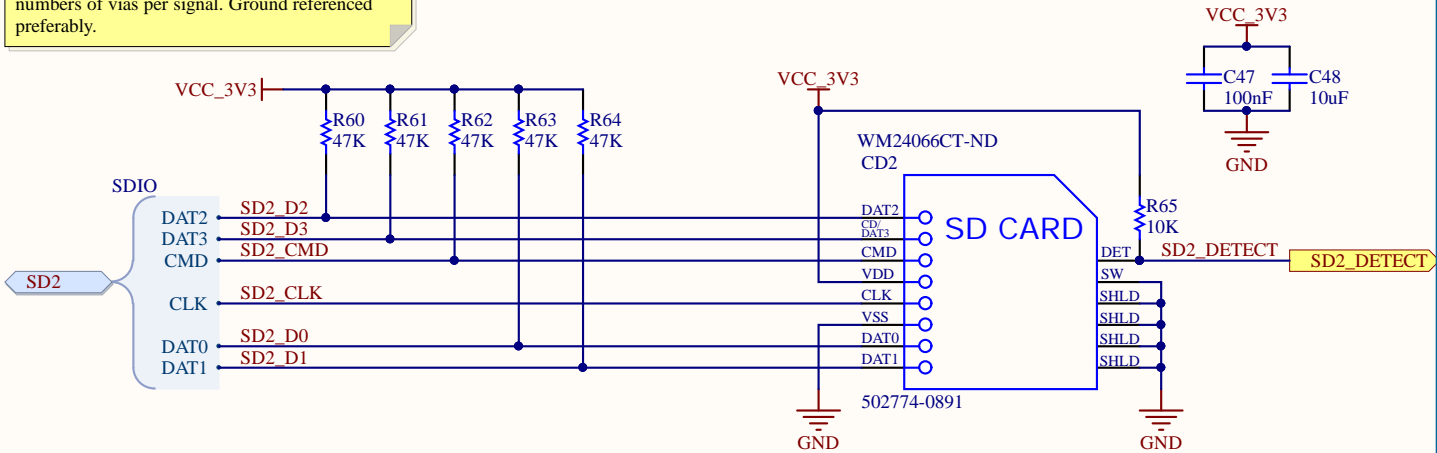
Title		
Kill Switch		
Size	Number	Revision
A		
Date:	5/9/2019	Sheet of
File:	D:\Dropbox\...\Hall_Effect.SchDoc	Drawn By:

Note: SDIO Transmission lines must be length matched with 50 ohm impedance. Maintain equal numbers of vias per signal. Ground referenced preferably.



SD Card Reader `

Note: SDIO Transmission lines must be length matched with 50 ohm impedance. Maintain equal numbers of vias per signal. Ground referenced preferably.



SD Card Reader 2

Title		
SD Cards		
Size	Number	Revision
A		
Date:	5/9/2019	Sheet of
File:	D:\Dropbox\...\SD.SchDoc	Drawn By:



