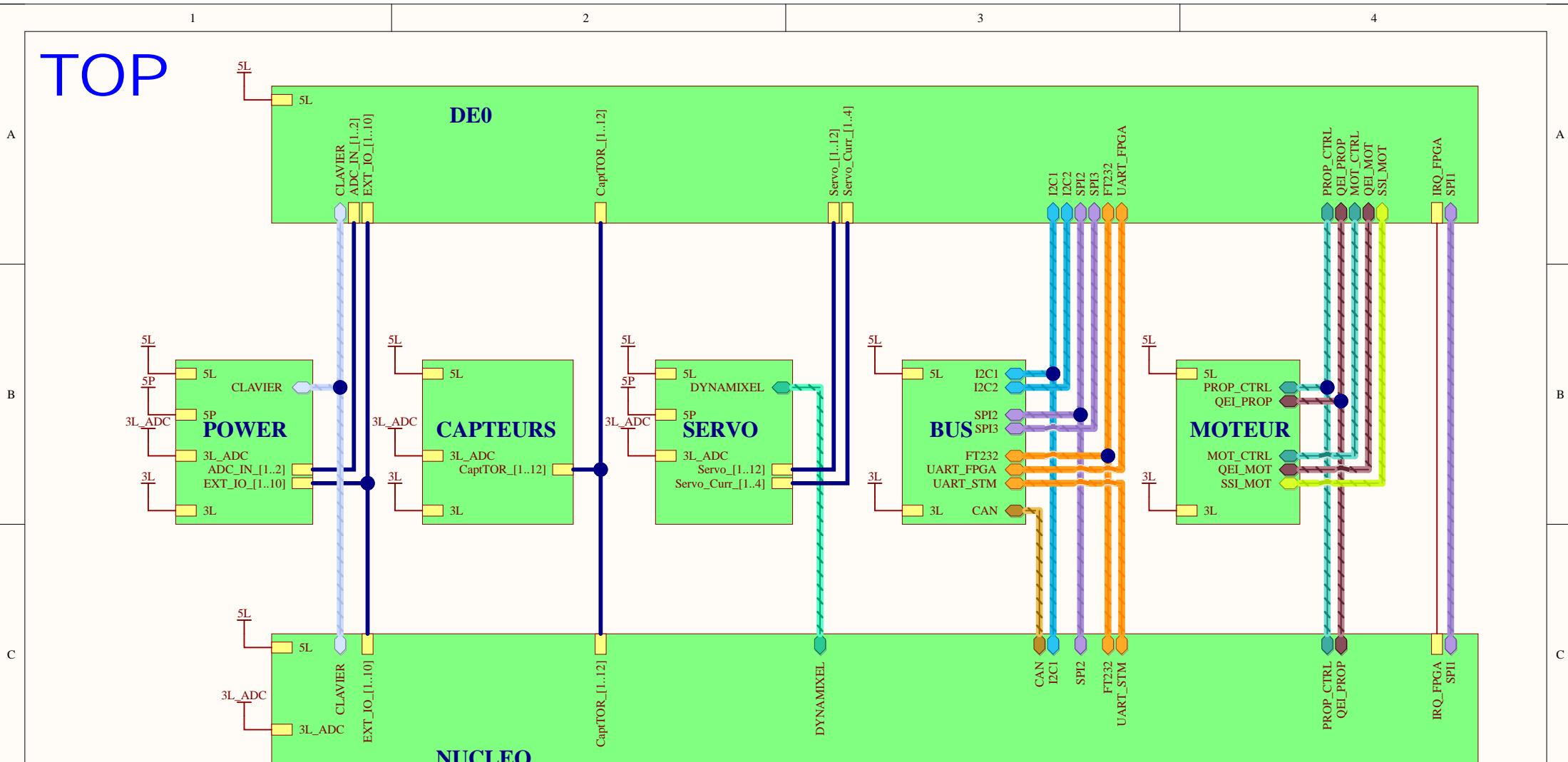
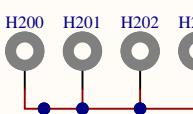


# TOP



Mecanique  
colomete\_soudé



Connecteur principal

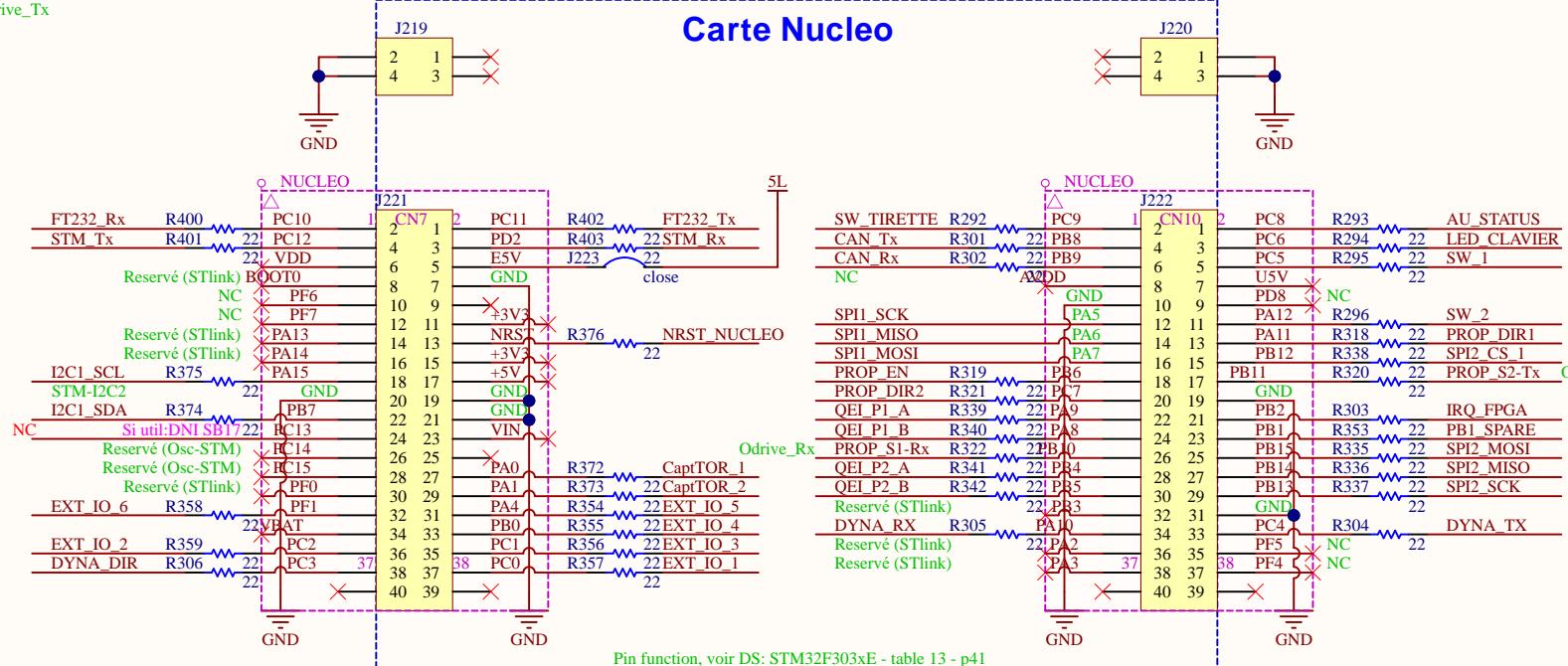
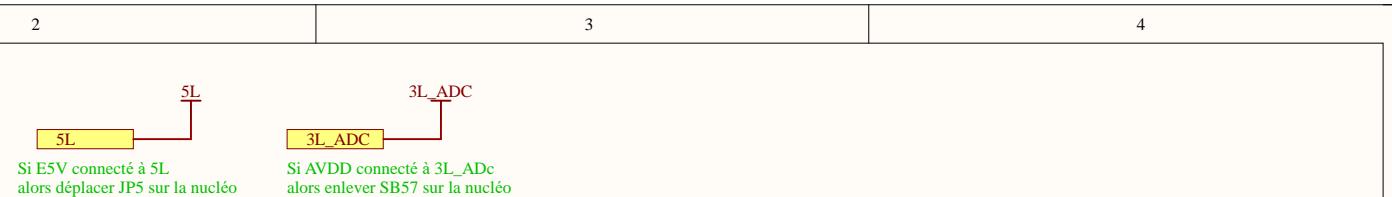
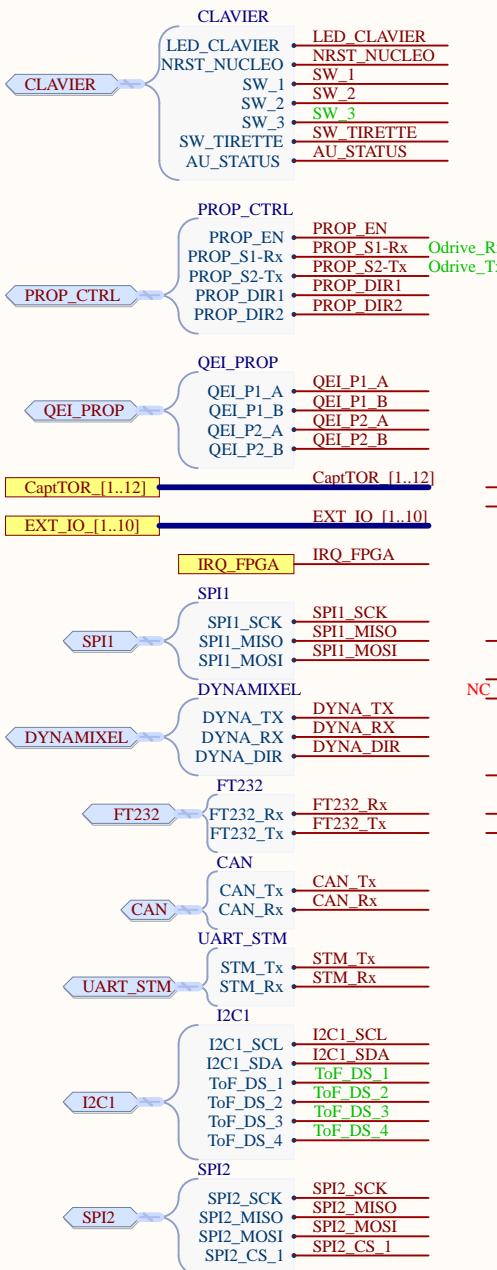
Utiliser la ref TSW-136-25-F-T-RA  
farnell 2053738

Function title

Routing note  
Warning note  
Info note

Carte Mere - TOP		
Title	Size	Number
Routeing note	A4	Revision
Warning note		
Info note		
Date: 8/23/2020		Sheet of
File: N:\DOC\..\TOP.SchDoc		Drawn By:

# Nucleo F303RE



**Function title**

Routing note  
Warning note  
Info note

Carte Mere - Nucleo		
Title	Size	Number
Routing note	A4	Revision
Warning note		
Info note		
Date: 8/23/2020		Sheet of
File: N:\DOC\..\Nucleo.SchDoc		Drawn By:

# DEO Nano (FPGA)

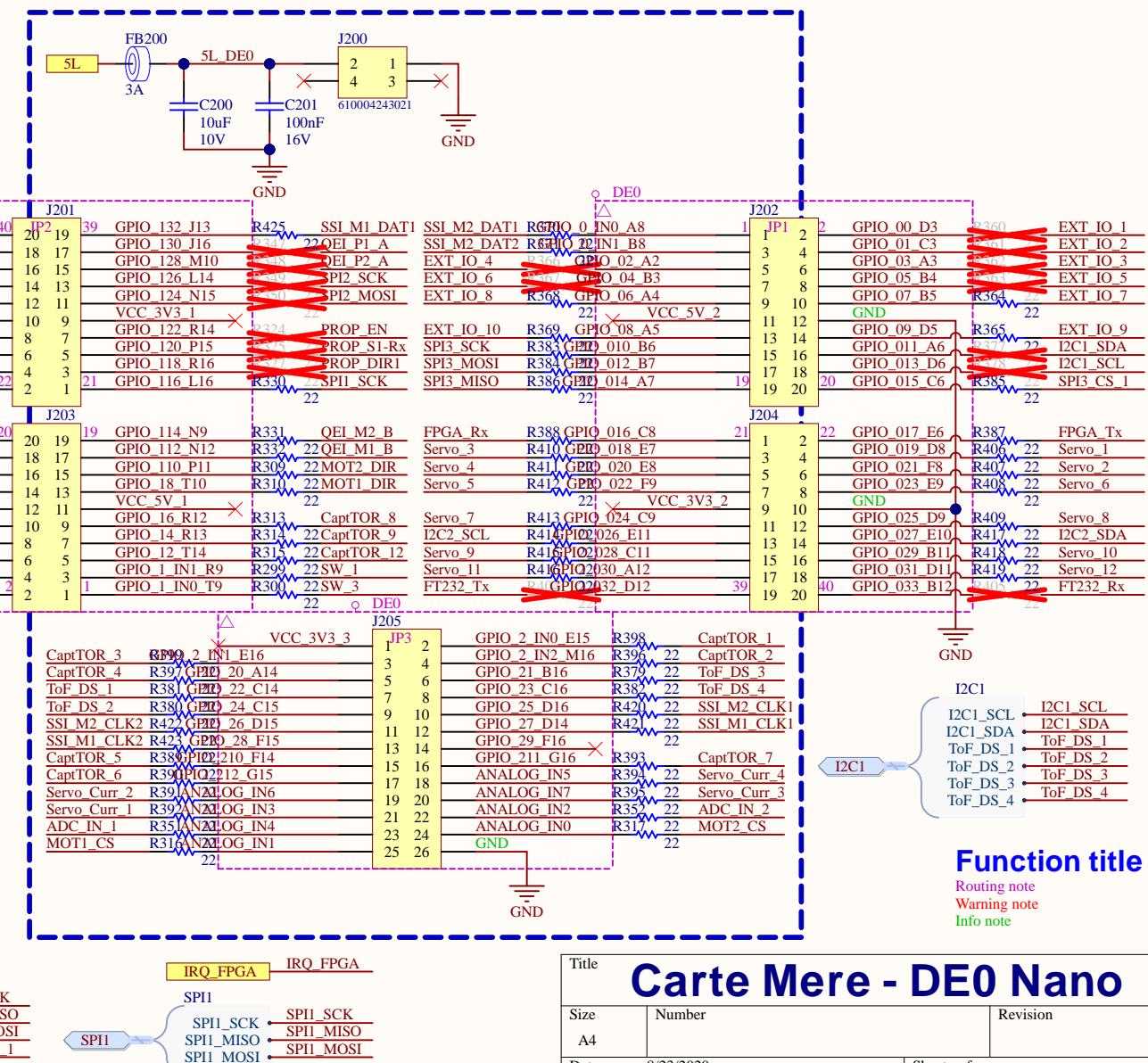
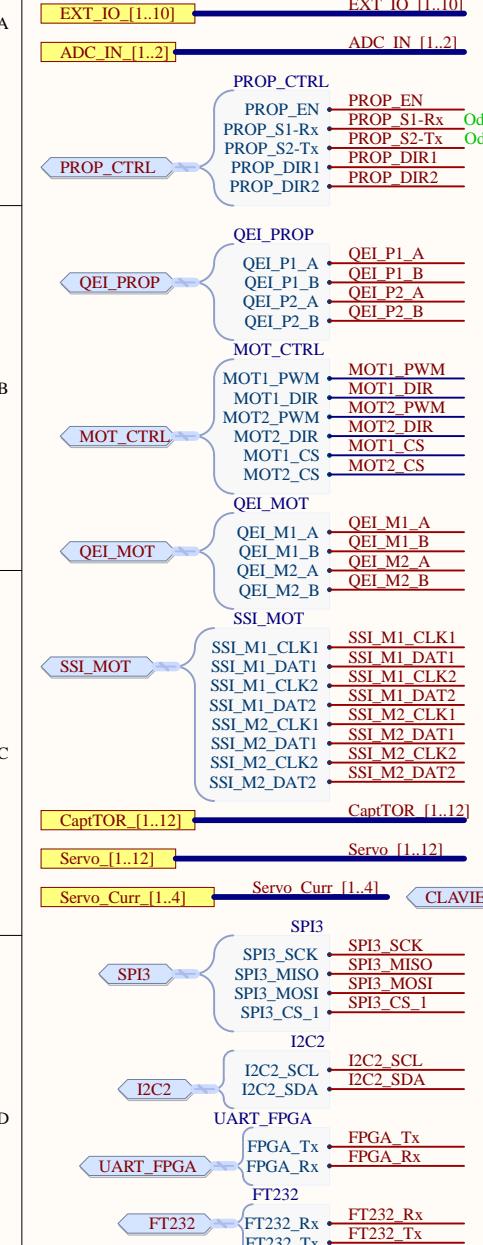
1

2

3

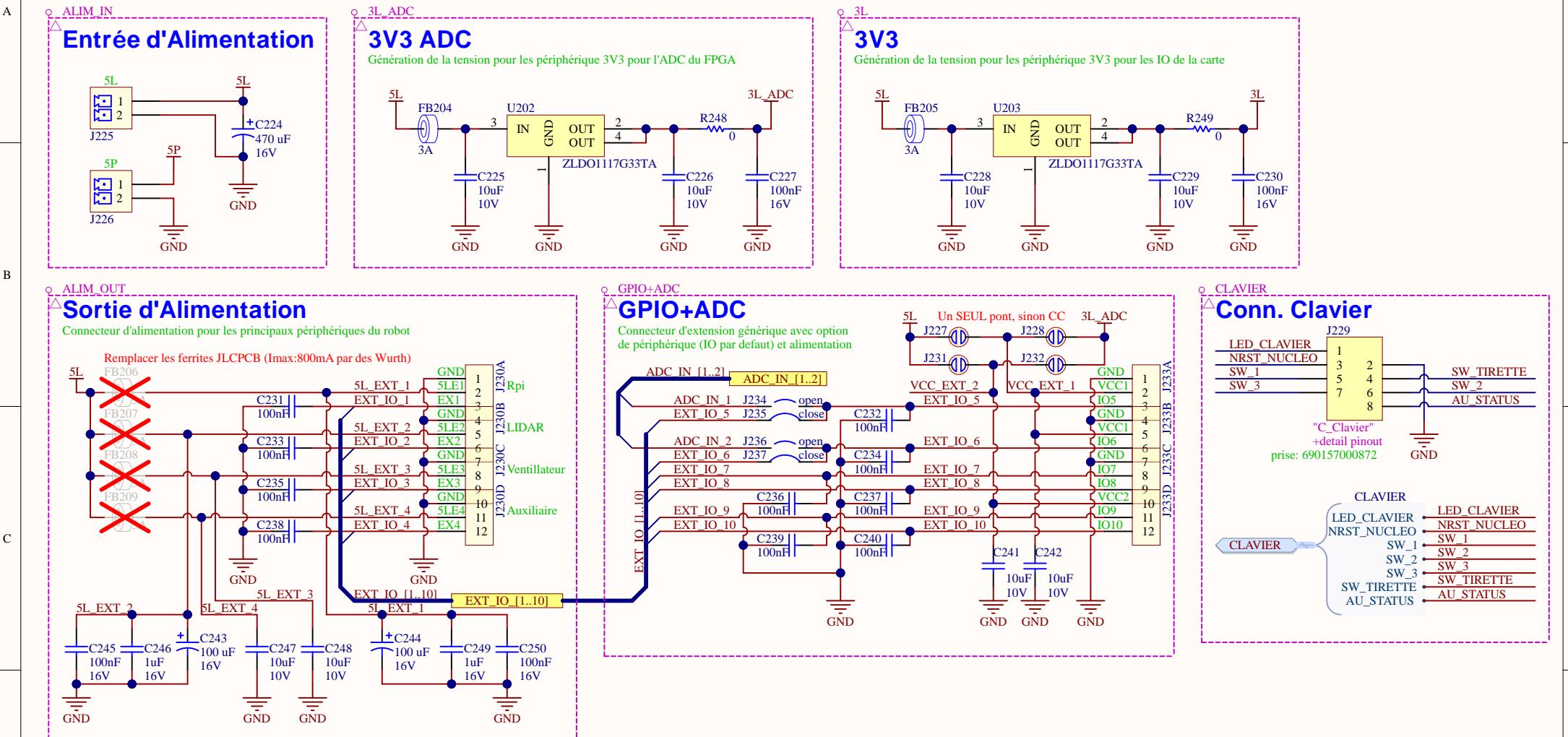
4

Conn. Femelle D\_20p: 610020243021 x2  
 Conn. Male D\_40p à souder à l'envers: 61004021121



# Power et Extension

1 2 3 4



Function title

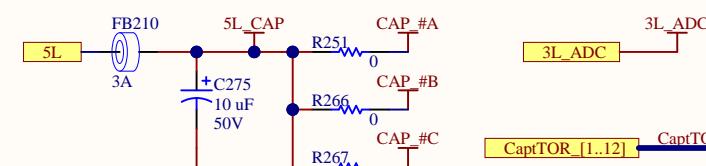
Routing note  
Warning note  
Info note

Title		Carte Mere - Power
Size	Number	Revision
A4		
Date:	8/23/2020	Sheet of
File:	N:\DOC..Power.SchDoc	Drawn By:

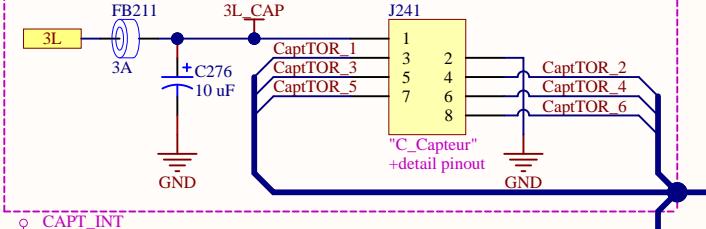
1 2 3 4

# Capteurs

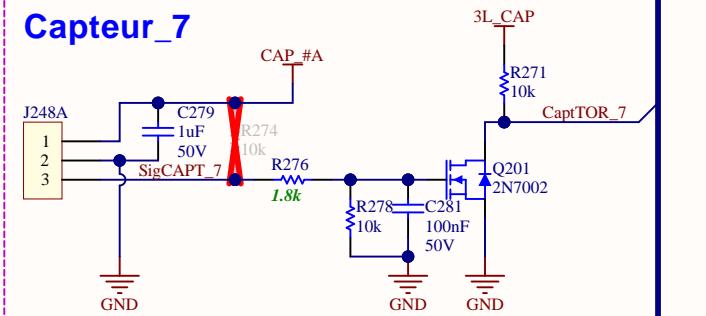
pour 12 capteurs (6 en 5L + 6 déportés sur la carte capteur en VBAT)



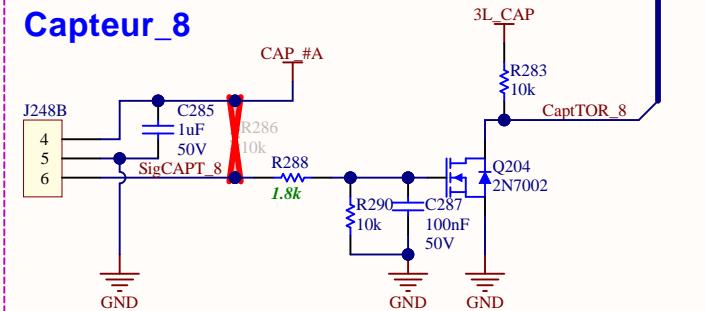
## Conn. Carte capteur



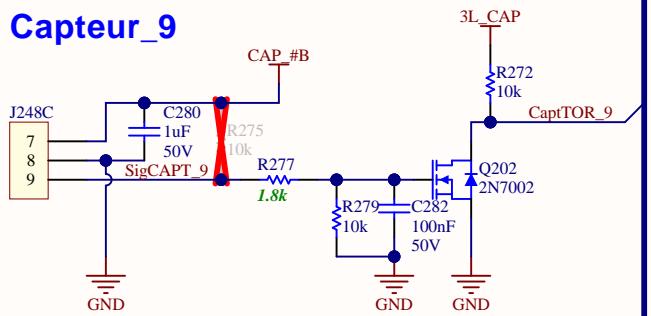
## Capteur\_7



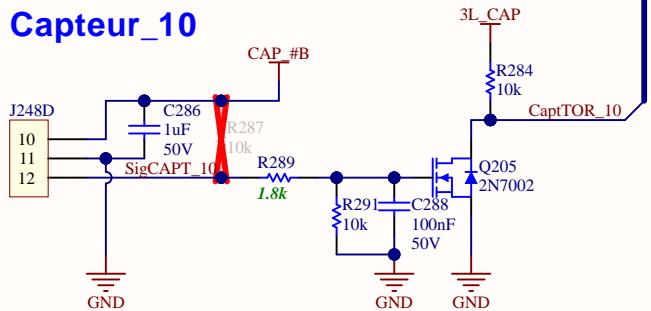
## Capteur\_8



## Capteur\_9



## Capteur\_10



Function title

Routing note

Warning note

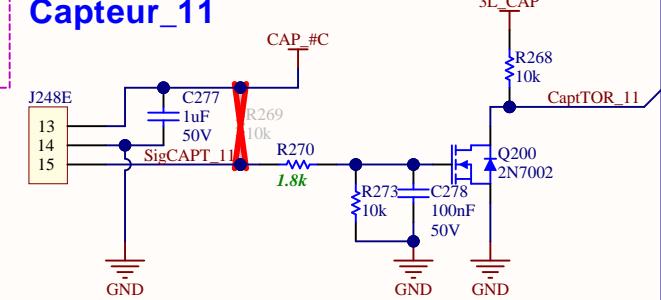
Info note

## Configuration selon type de capteur

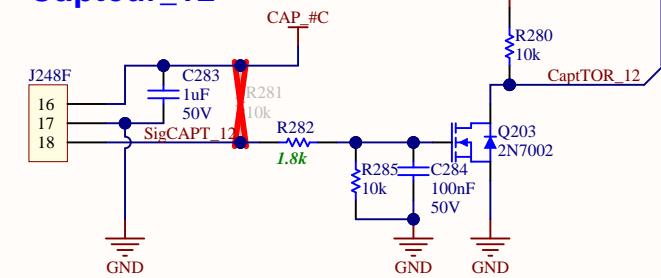
CAPTEUR	NPN Industriel	micro-switch	capteur Analog.
alim:	PWR_CAP	5L_CAP	5L_CAP
pin #	marron (VDD) 1 2 3	NC NO (optionnel) COM	VCC GND OUT
detection:	out=3.3V	out=3.3V	out=V_out
modif circuit	non	R_PU: DNI	R_PU: DNI les 2
alim PWR (20~25V)			Mosfet: DNI 68 Ohm à la place
alim 5V	R_PU: 1.8k R_Serie: 1.8k	R_PU: DNI R_Serie: 1.8k	R_Serie: 10k R_PD: 1k
			R_PU: DNI les 2 Mosfet: DNI 68 Ohm à la place

Rappel: les VGS des mosfet sont limité à 16V (et min.2,5V)

## Capteur\_11



## Capteur\_12

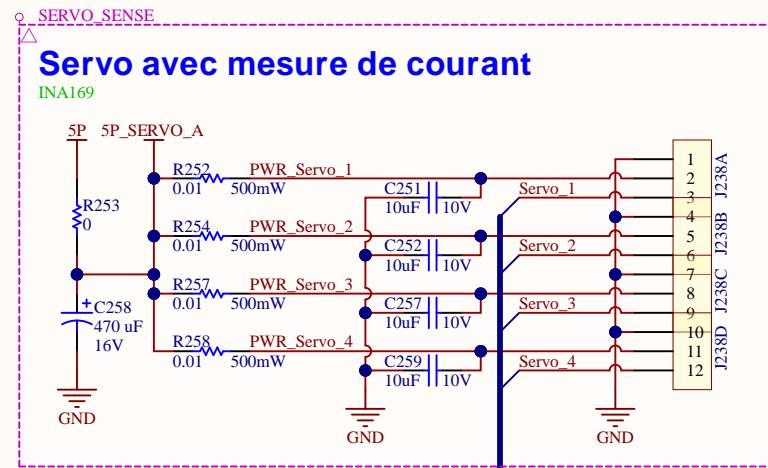


## Carte mère - capteur

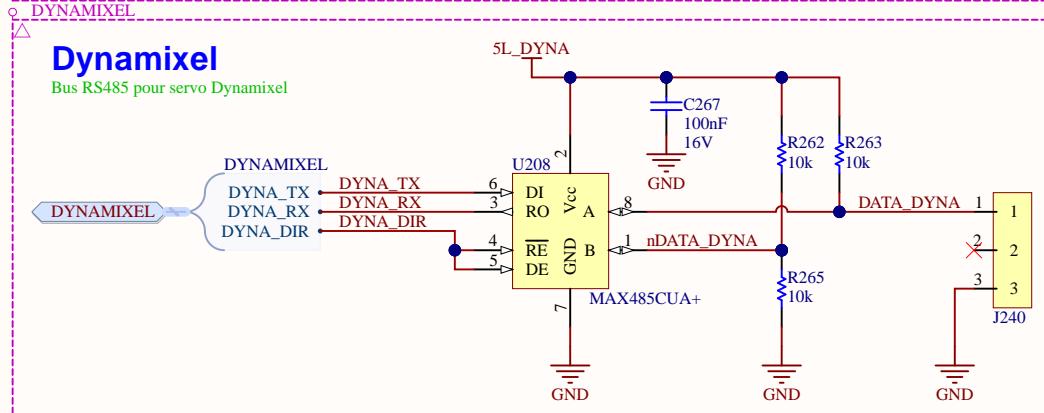
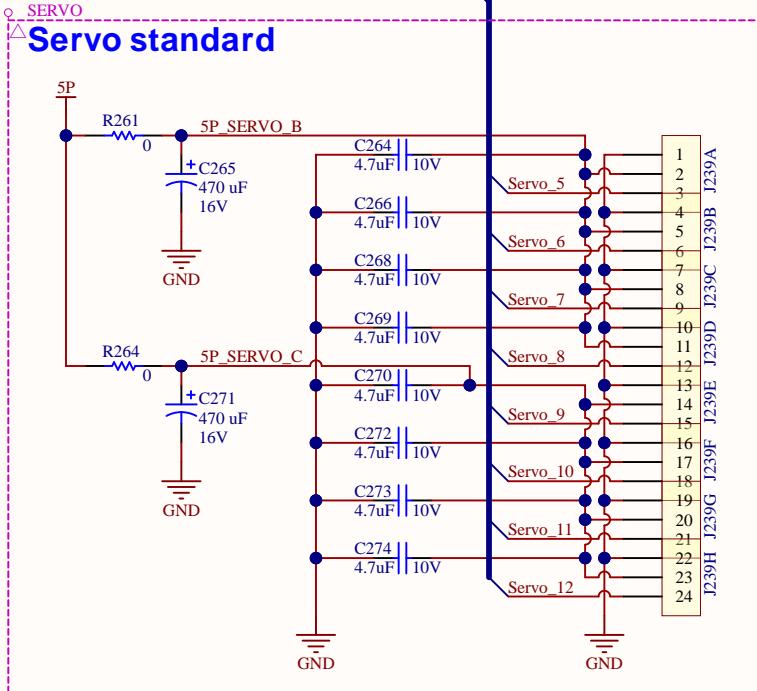
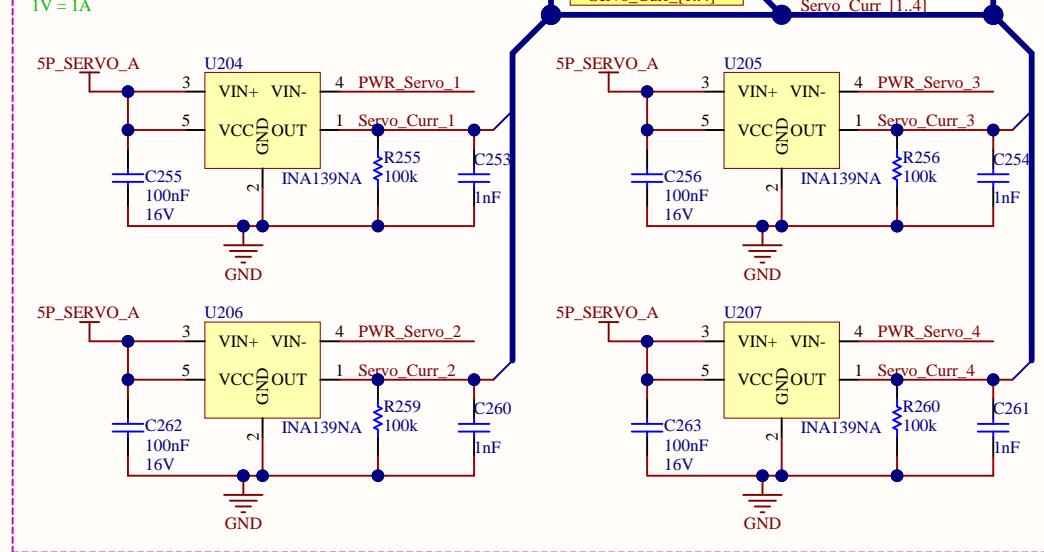
Size	Number	Revision
A4		
Date:	8/23/2020	Sheet of
File:	N:\DOC..\Capteur.SchDoc	Drawn By:

Placer les 2 connecteurs d'un même groupe côte à côte (2.54mm d'intervalle) +detail pinout

# Servomoteur



**SERVO\_CURR**  
**Mesure de courant servo 1-5**



**Function title**

Routing note  
Warning note  
Info note

Carte Mere - Servomoteur		Revision
Size	Number	
A4		
Date:	8/23/2020	Sheet of
File:	N:\DOC..\Servomoteur.SchDoc	Drawn By:

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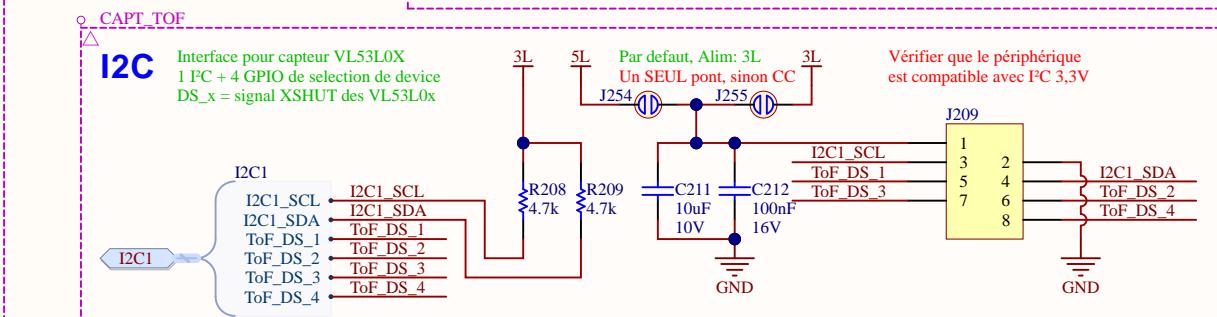
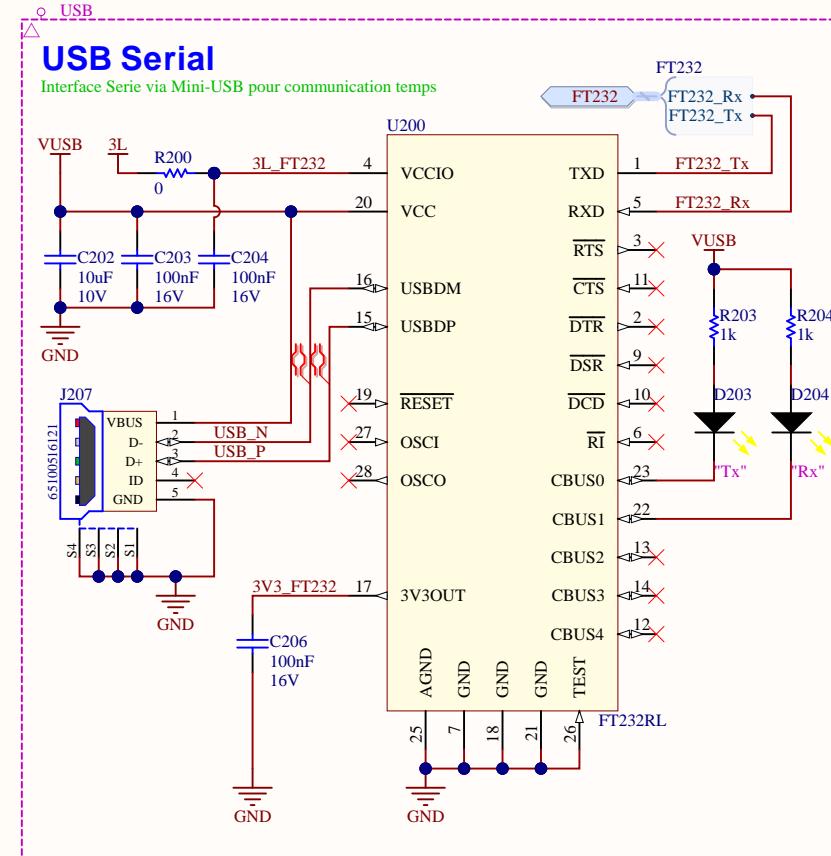
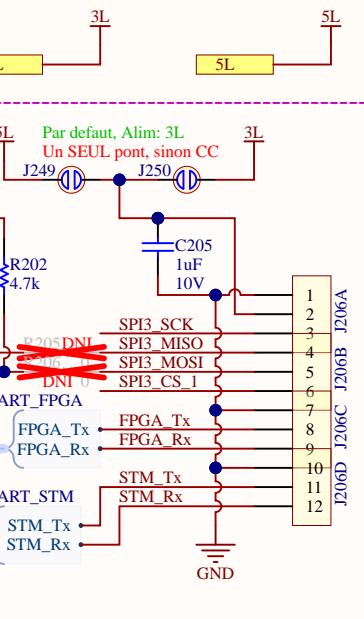
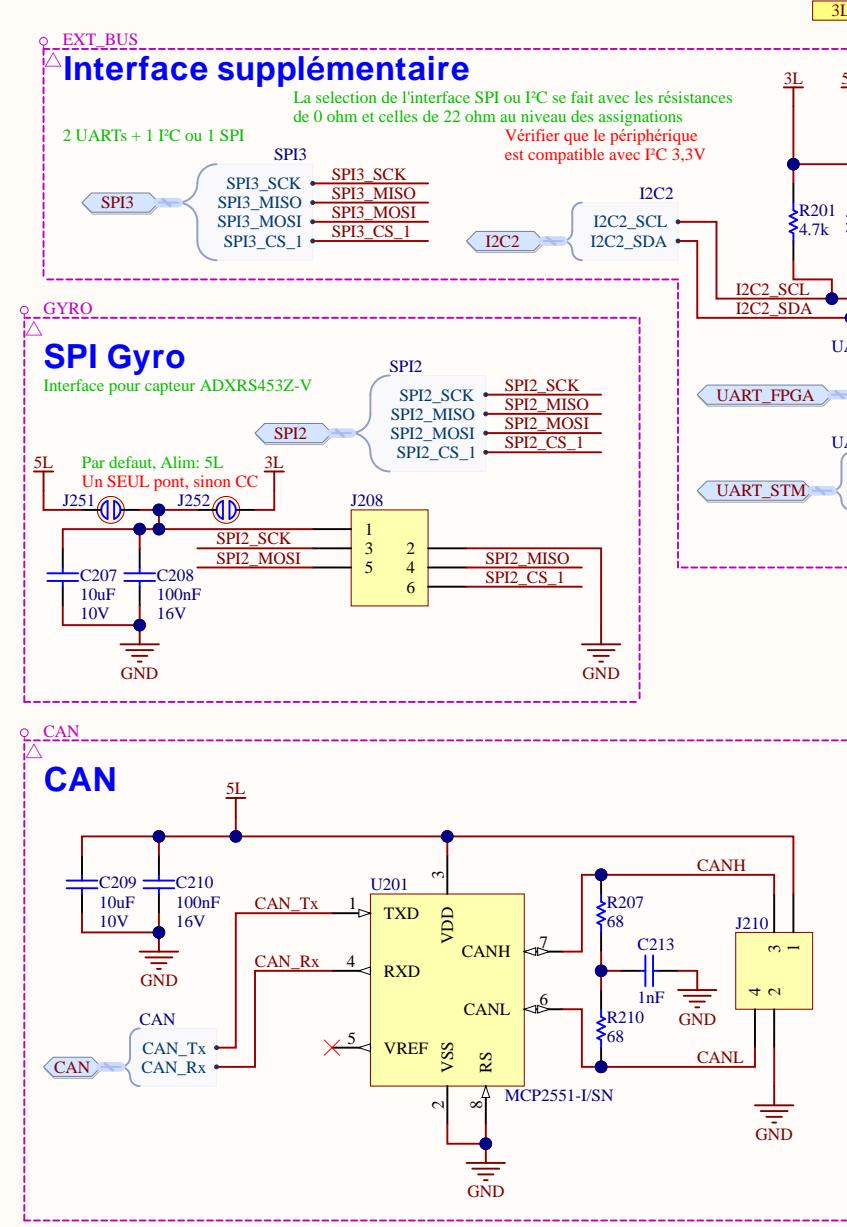
# BUS d'Interfaces

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Function title

Routing note  
Warning note  
Info note

Title		Size	Number	Revision
A4				
Date:	8/23/2020			Sheet of
File:	N:\DOC...\Interface_BUS.SchDoc			Drawn By:

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# Motorisation

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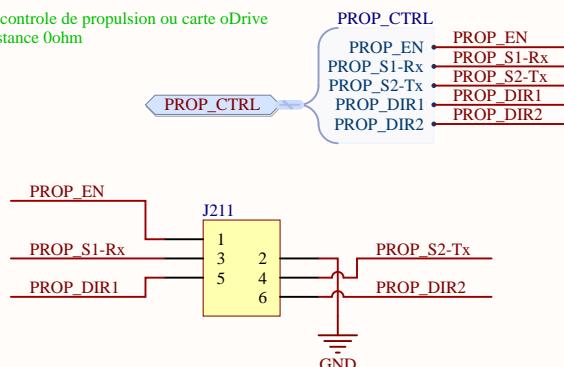
4

A

## MOT\_PROP

### Controle moteur propulsion

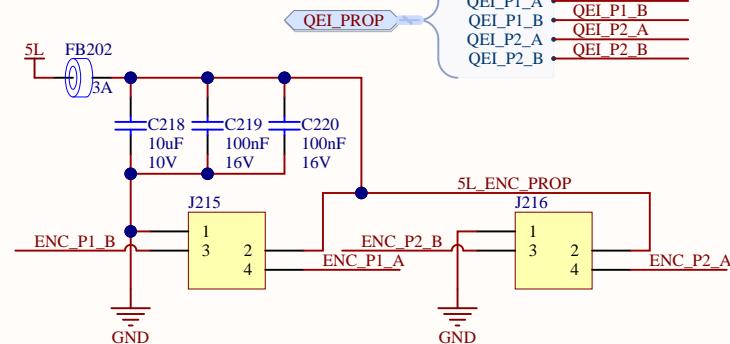
Interface carte de controle de propulsion ou carte oDrive  
Selection par résistance 0ohm



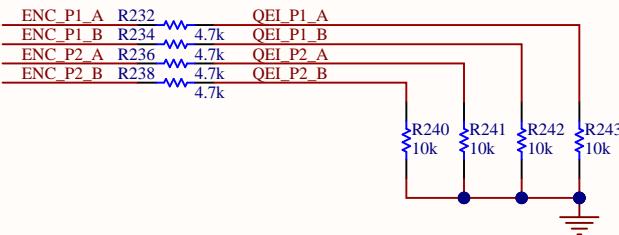
## ENC\_ODO

### Encodeur odométrie

Entrées encodeur des roues codeuses



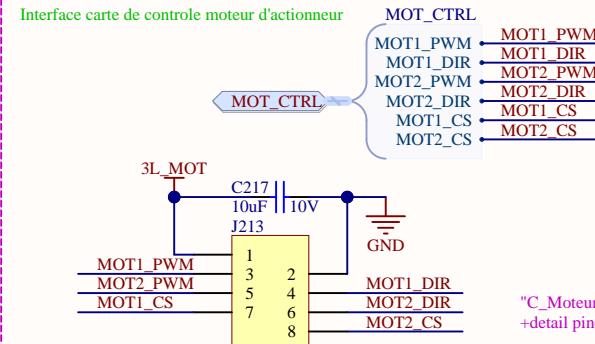
D



## MOT\_ACT

### Controle moteur actionneur

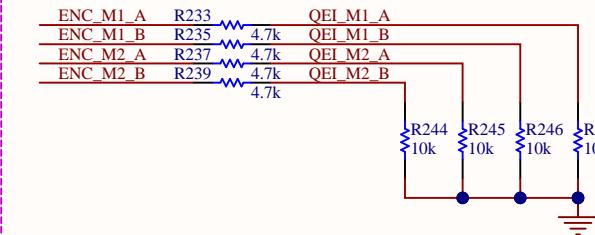
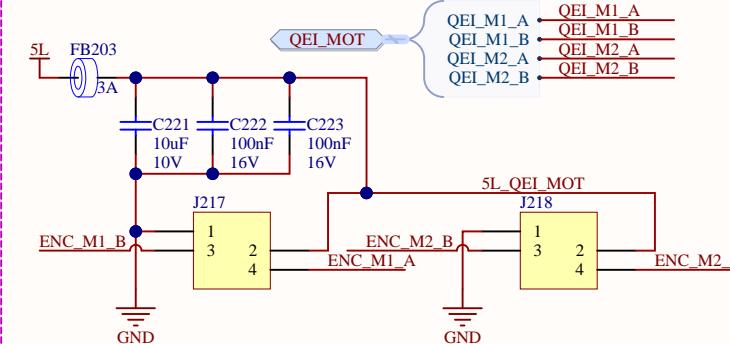
Interface carte de controle moteur d'actionneur



## ENC\_ACT

### Encodeur moteur actionneur

Entrées encodeur des moteurs d'actionneur



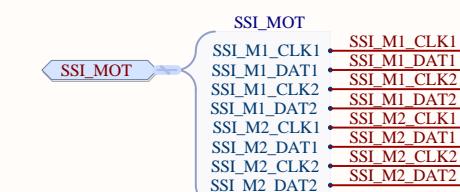
## Function title

Routing note  
Warning note  
Info note

ENC\_SSI

## Encodeur SSI actionneur

Synchronous Serial Interface pour encodeur Posic AP3403L



## Carte Mere - Motorisation

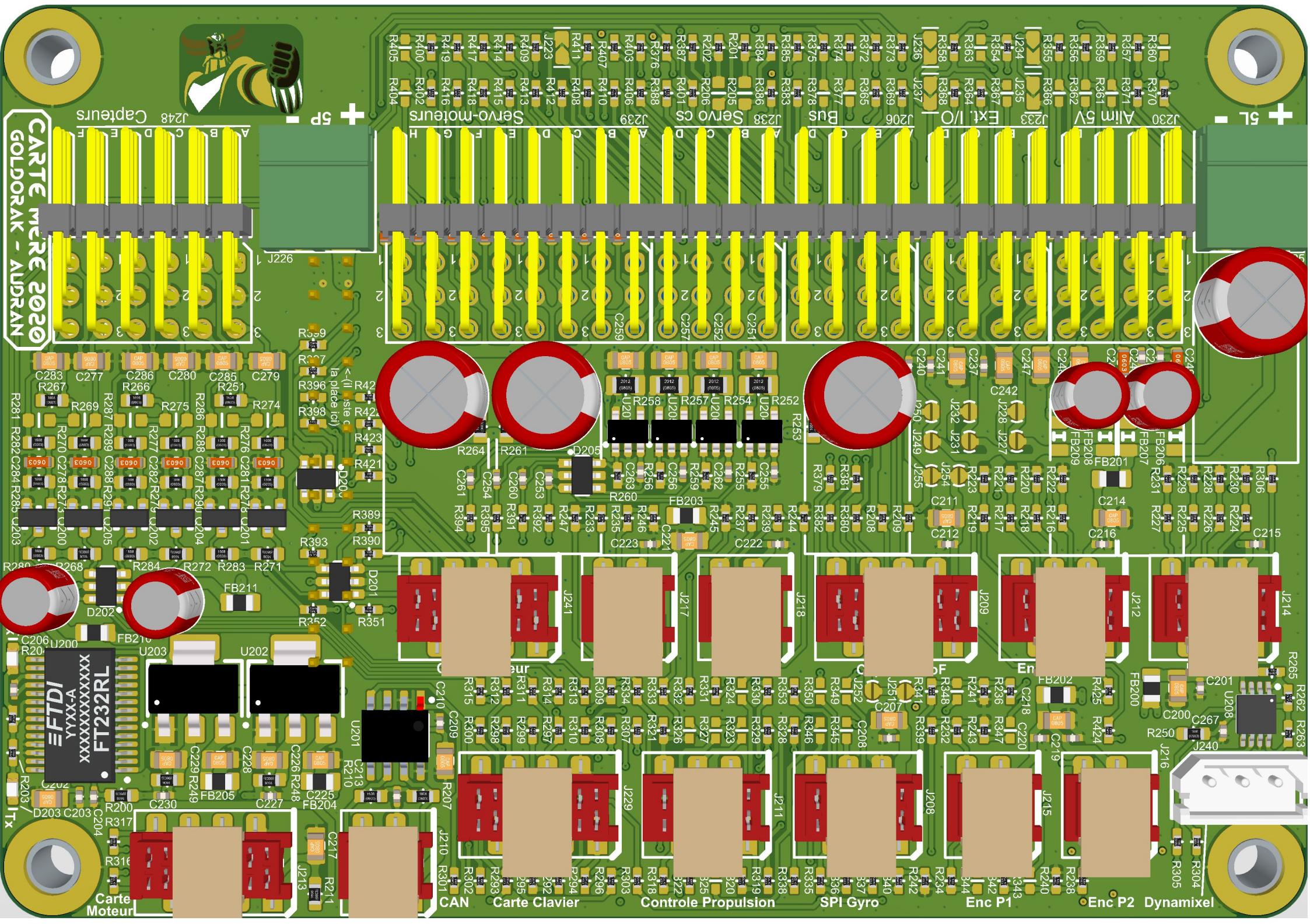
Size	Number	Revision
A4		
Date:	8/23/2020	Sheet of
File:	N:\DOC..\Motorisation.SchDoc	Drawn By:

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# CARTE MÈRE 2020

