

Title			
Size A4	Number		Revision
Date:	19/01/2012	Sheet of	
File:	M:\ ROBOT\..2012 FDP Generic Port Drawings		Doc

A

B

C

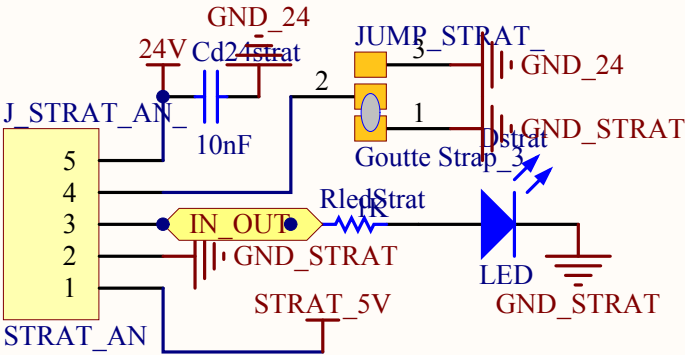
D

A

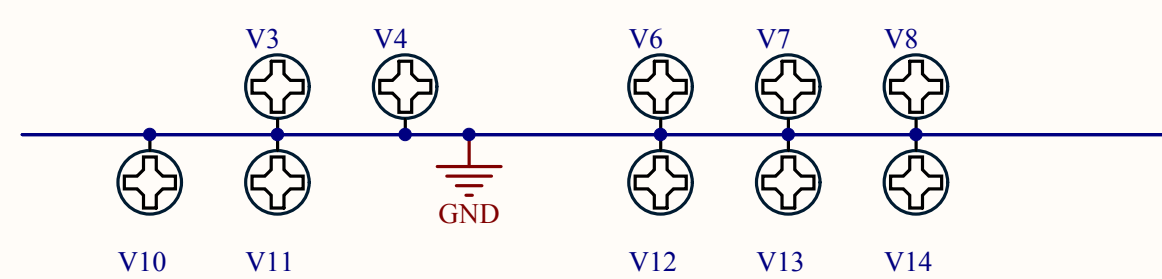
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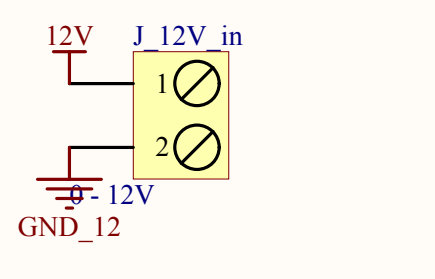
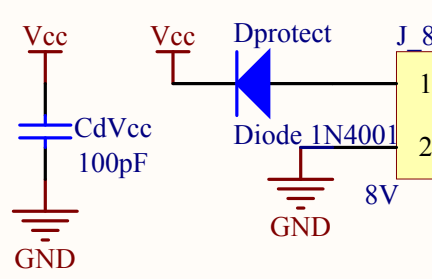
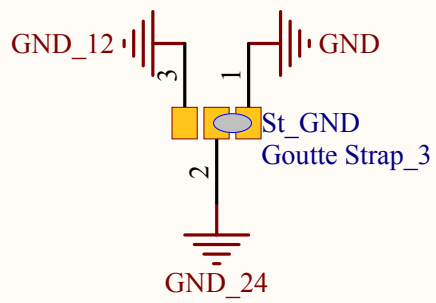
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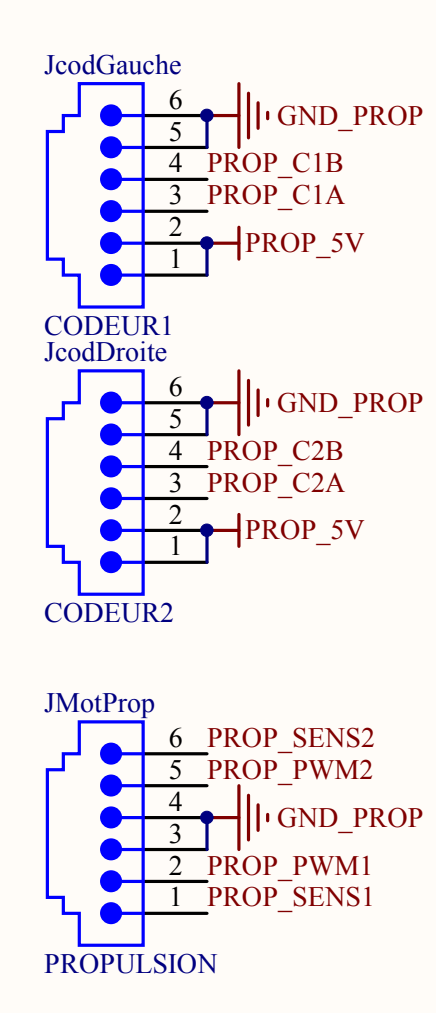
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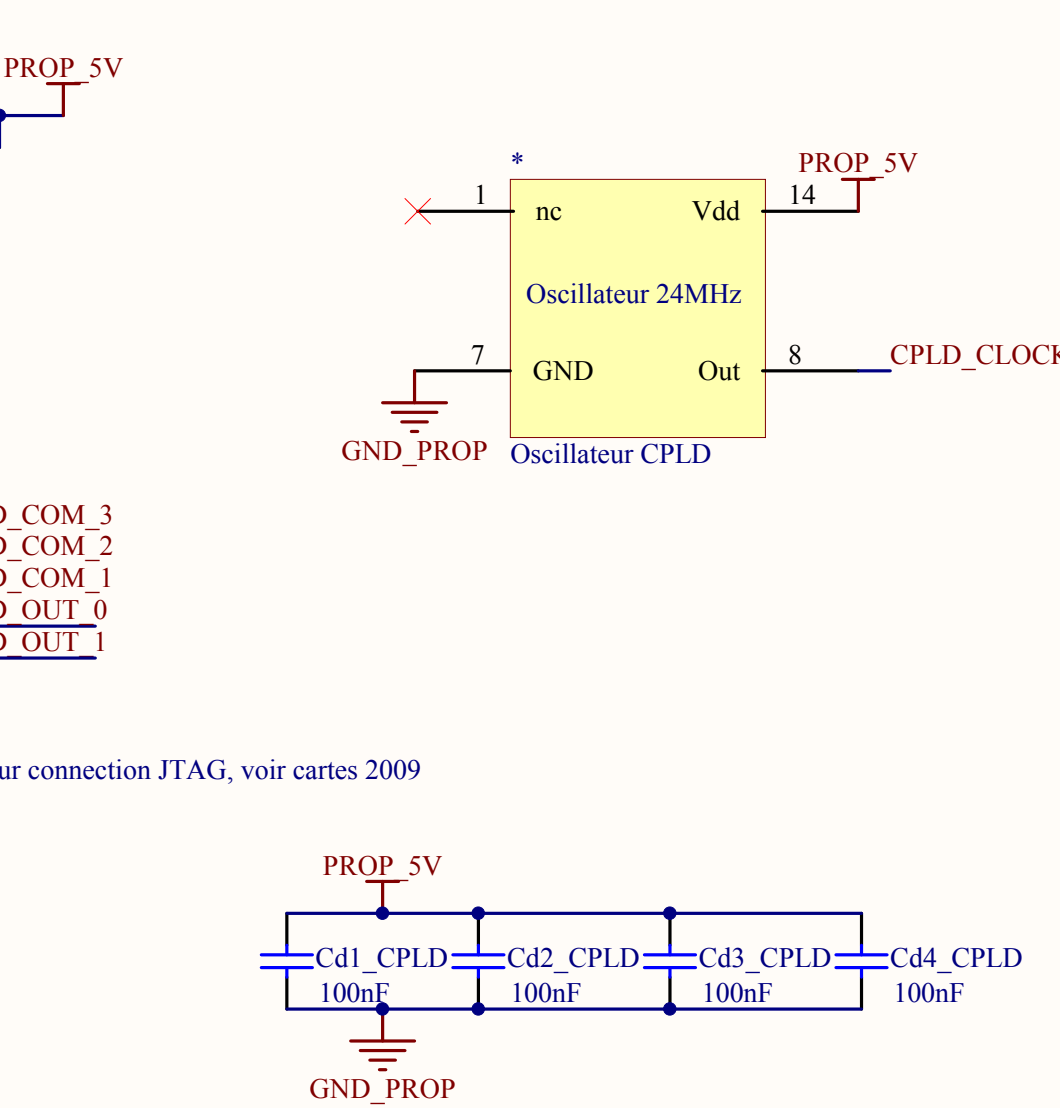
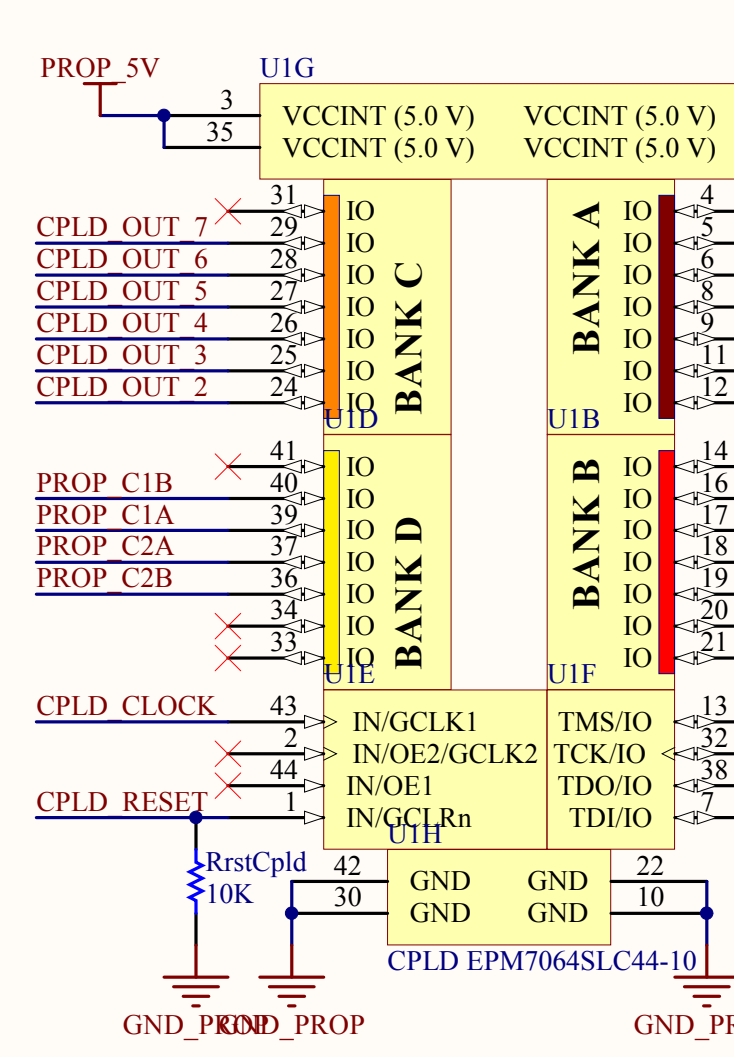
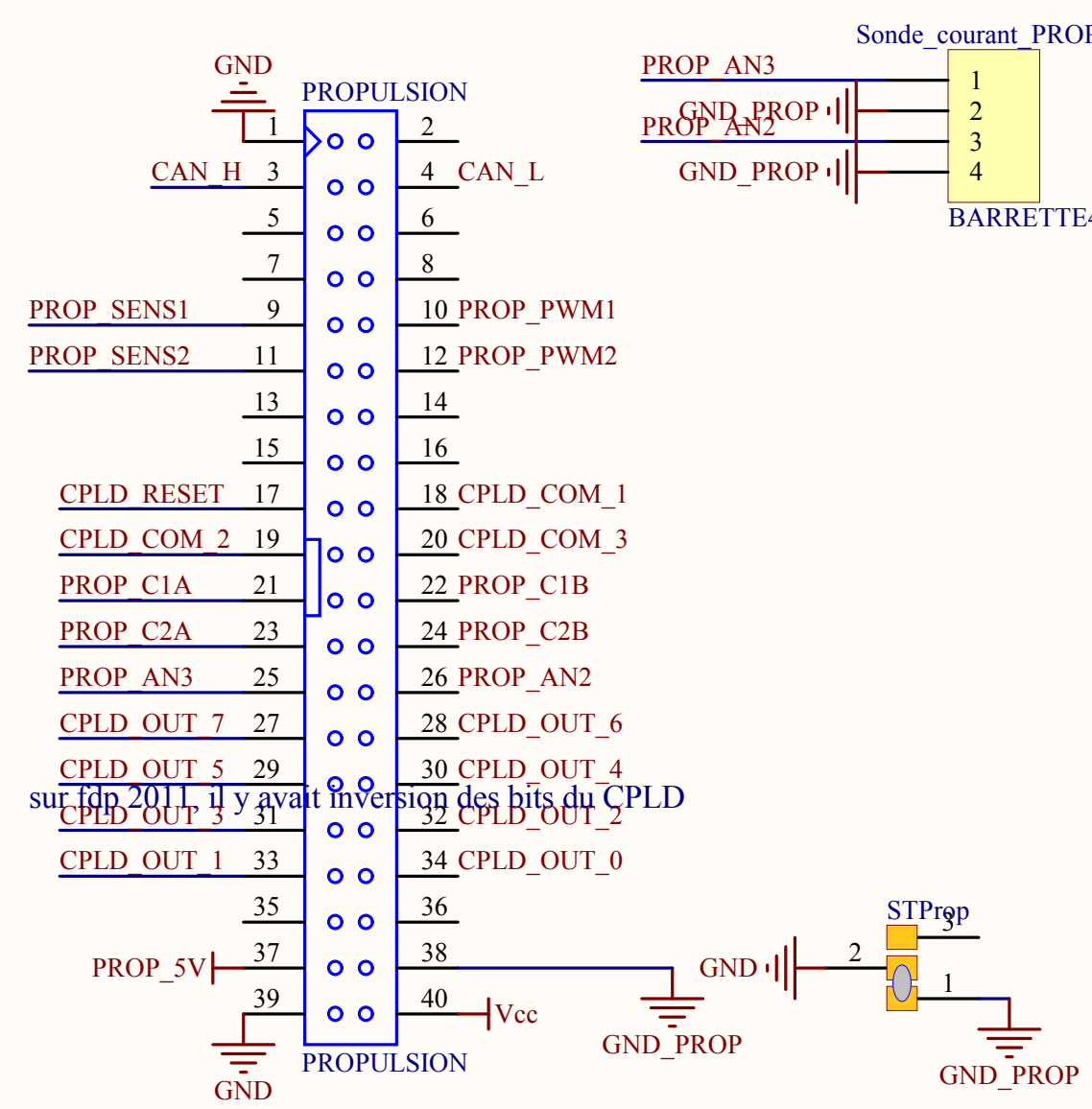
Connection partie alimentation



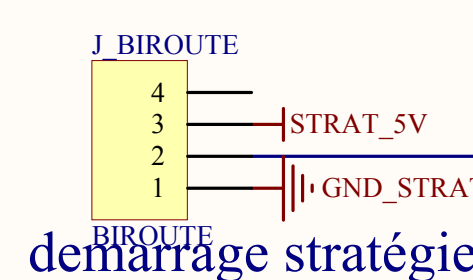
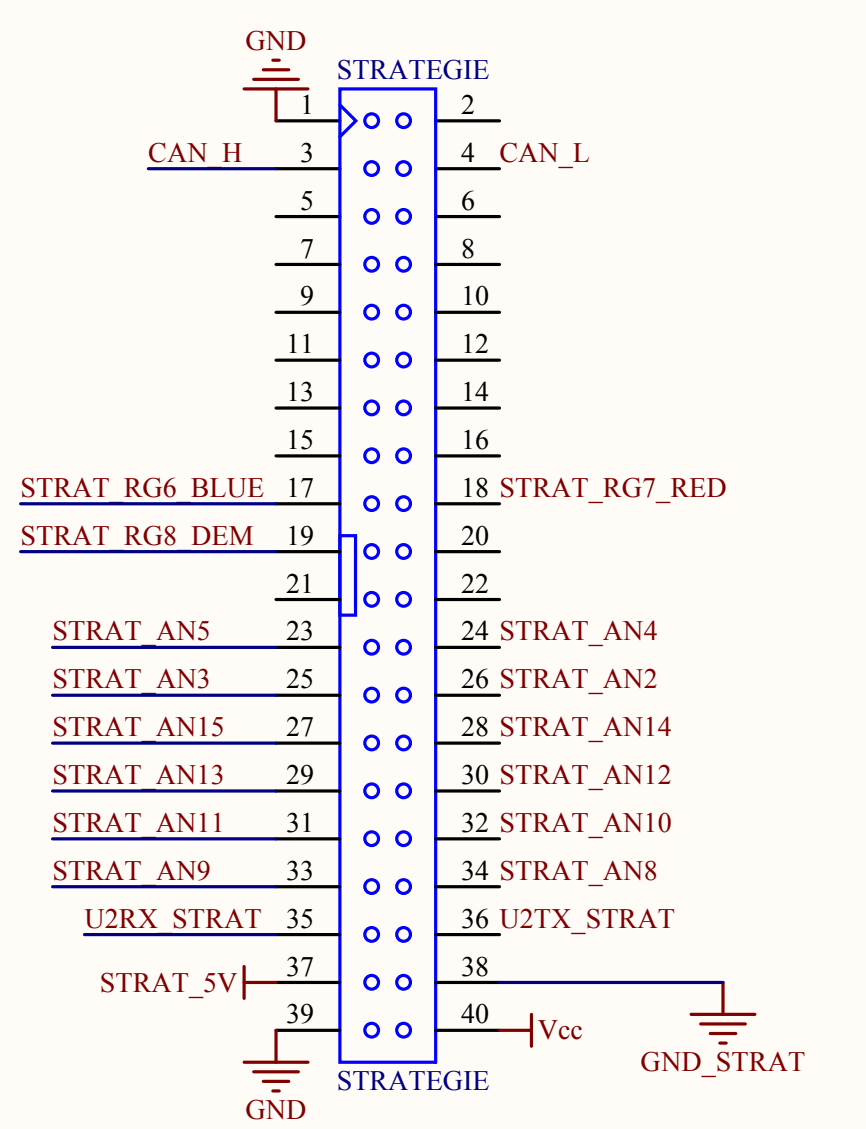
Distribution Energie



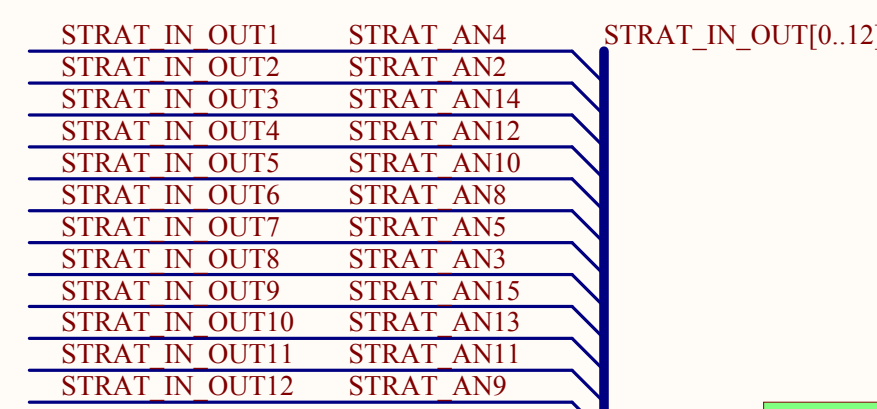
PROPULSION



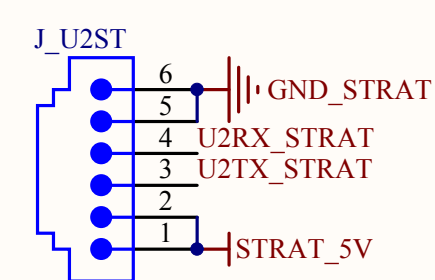
STRATEGIE



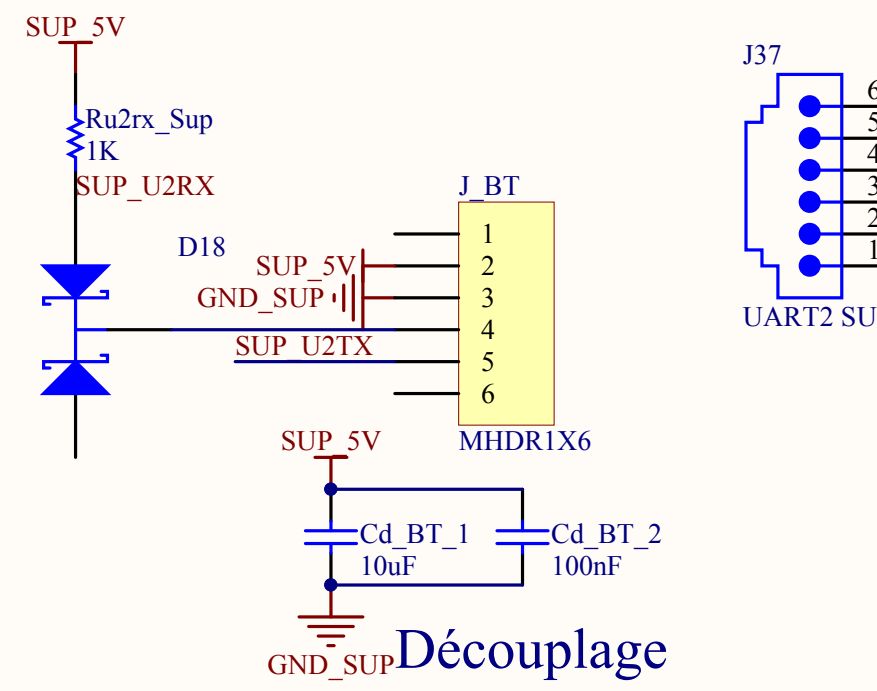
liaison GND : fdp -> facto



sortie analogique

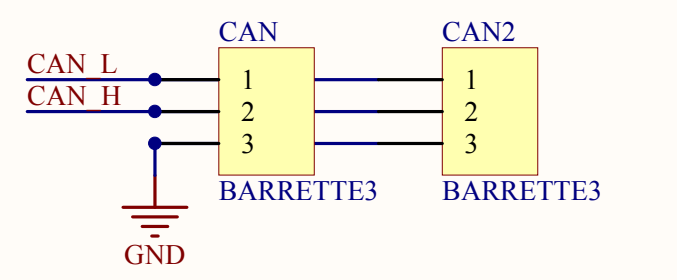


Module Bluetooth

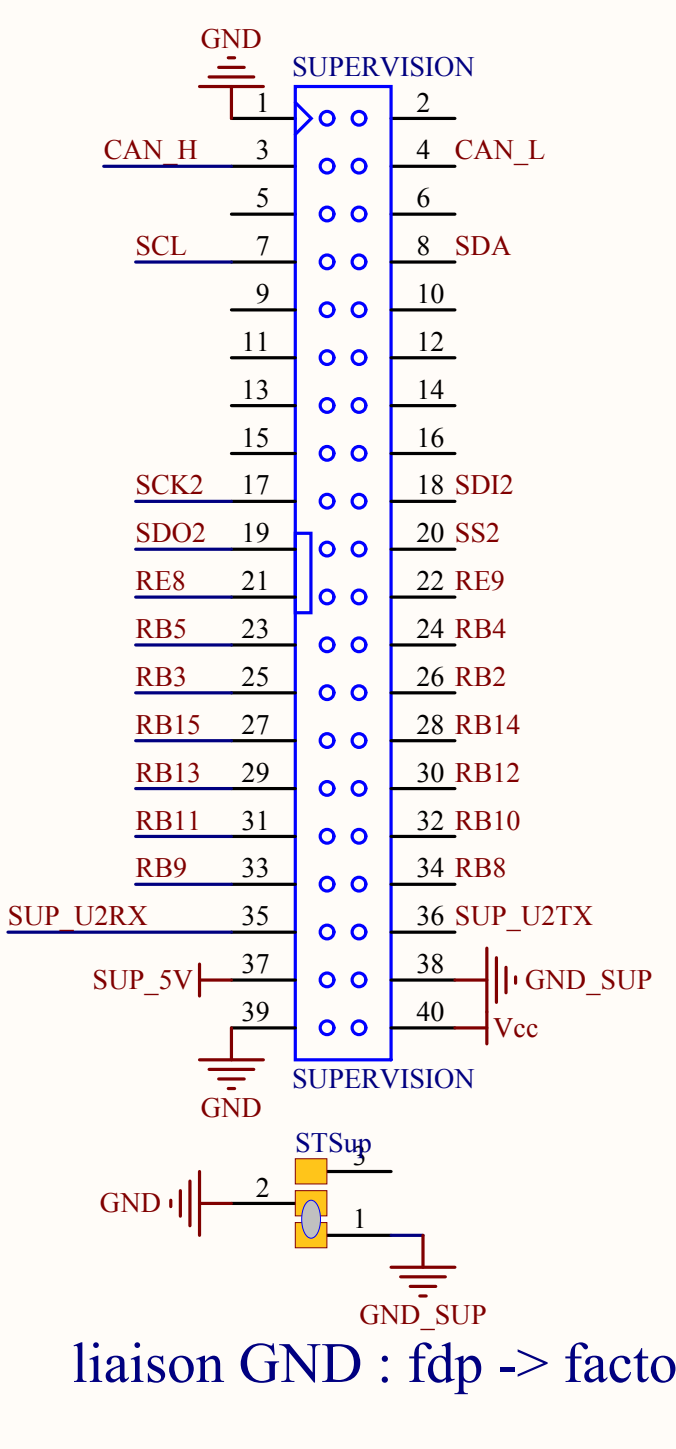


RTC Horloge I2C

SUPERVISION

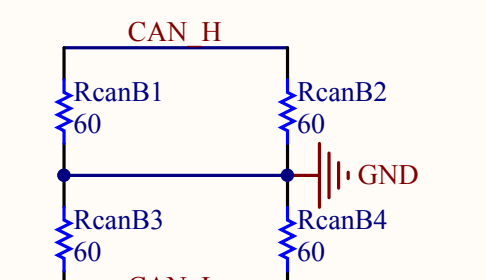


Mémoire SPI

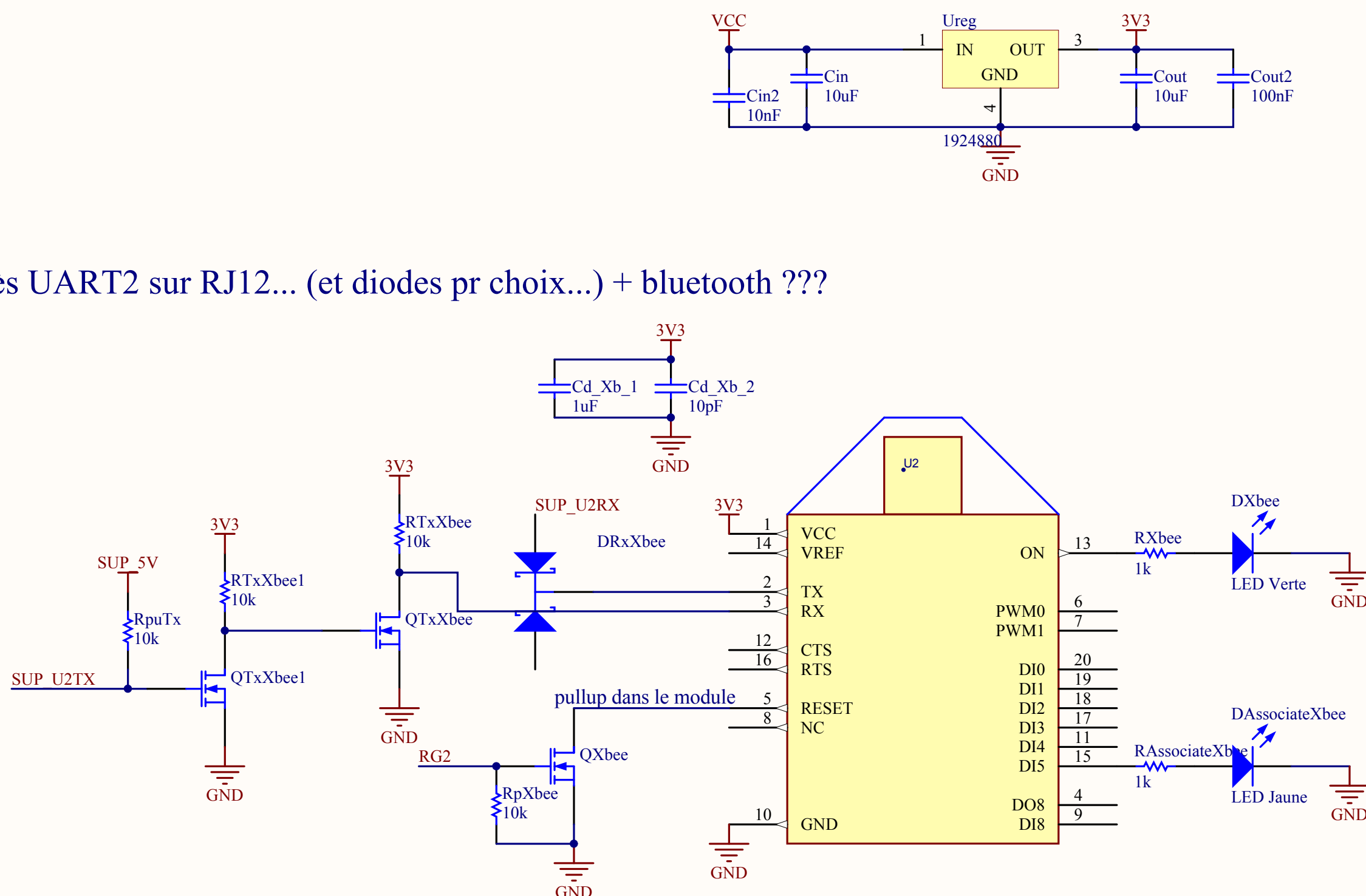


liaison GND : fdp -> facto

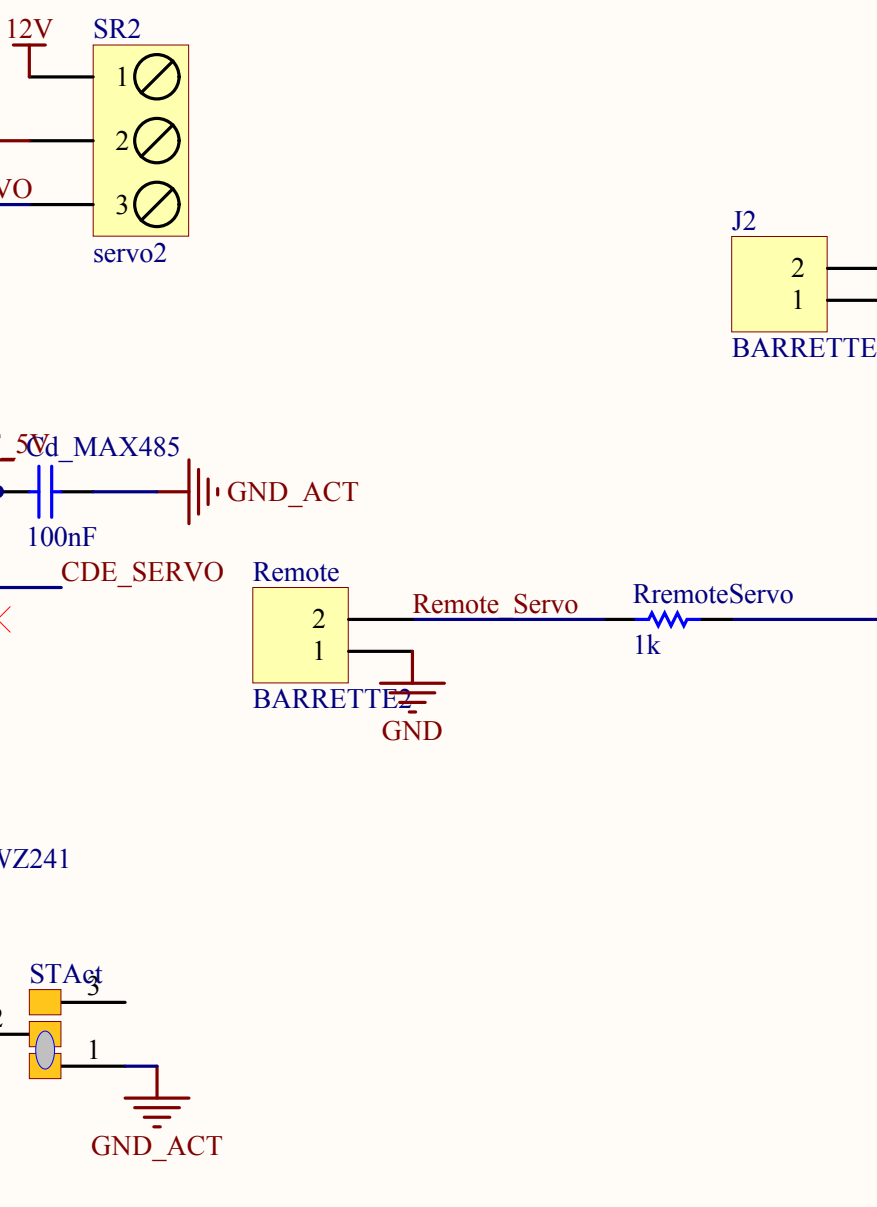
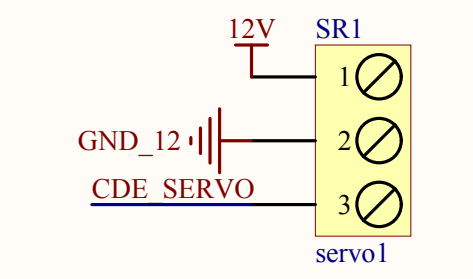
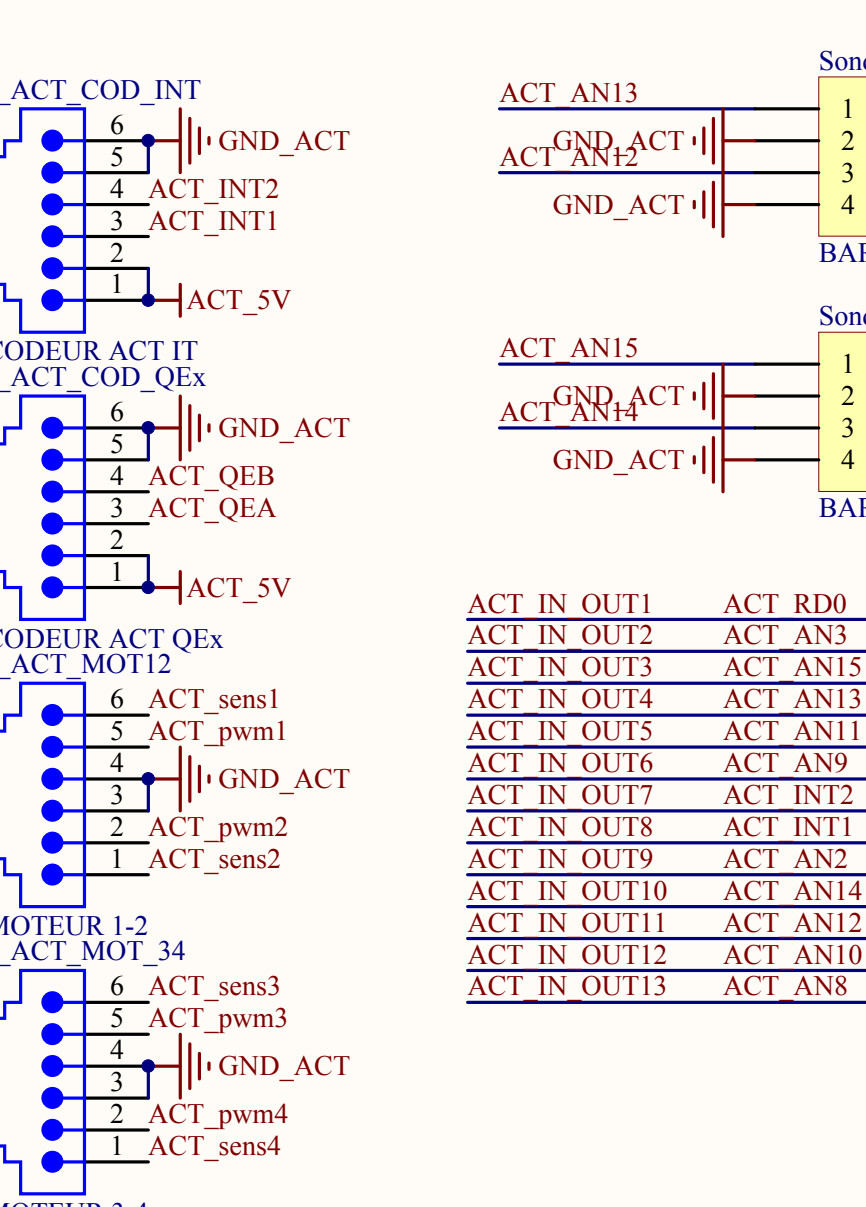
Bouchons CAN



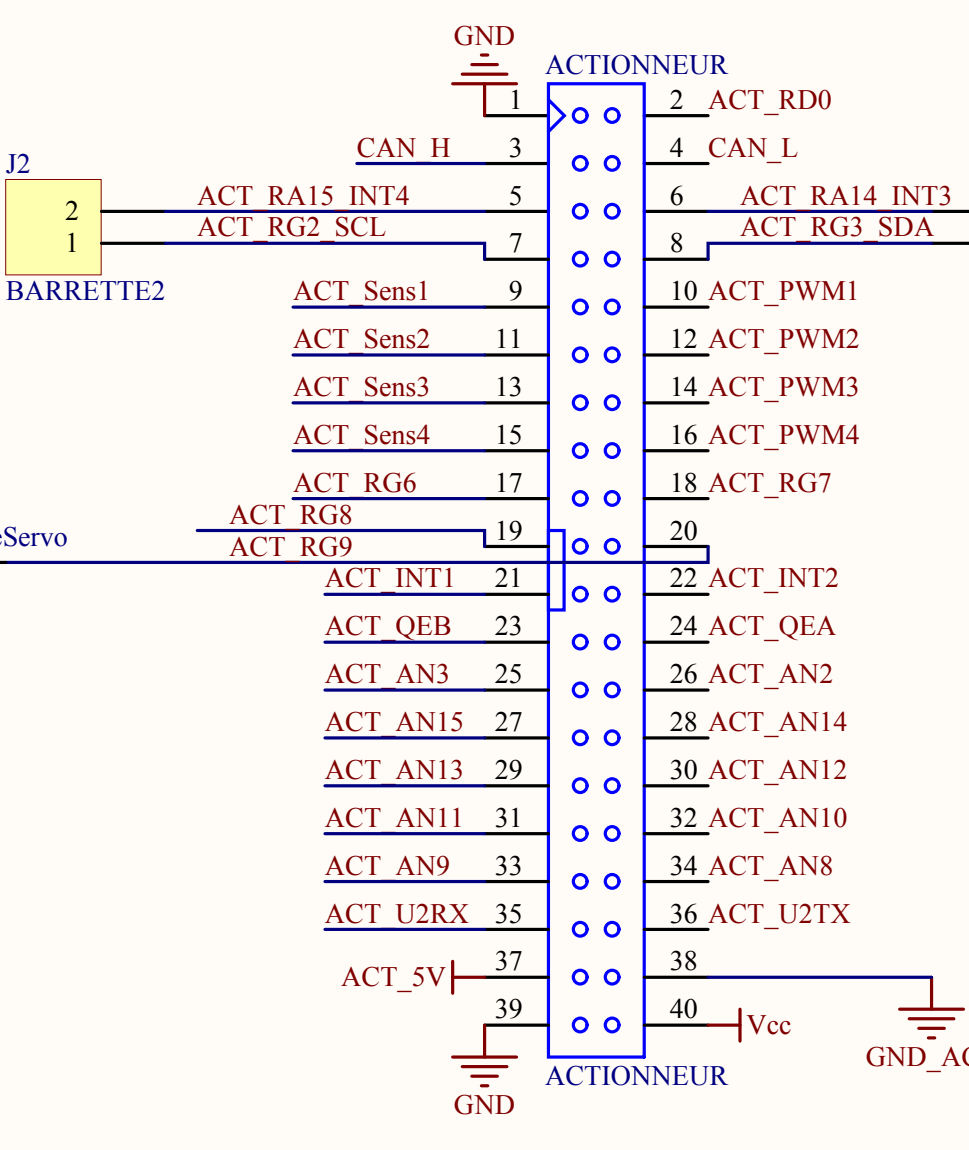
Accès UART2 sur RJ12... (et diodes pr choix...) + bluetooth ???



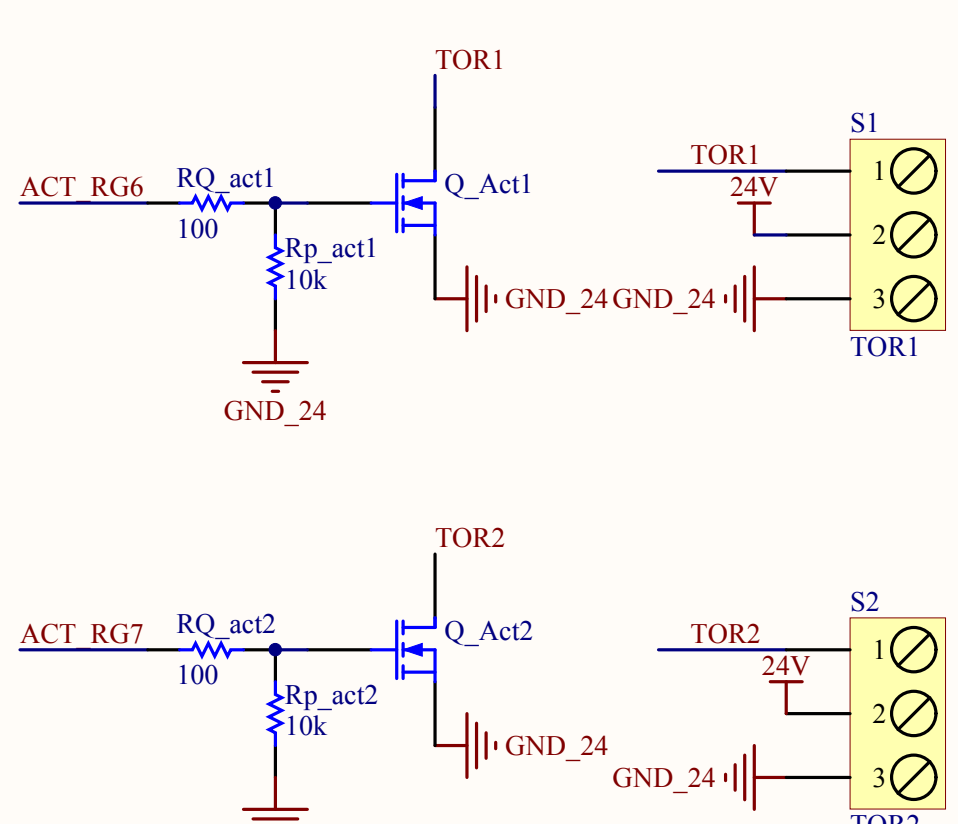
ACTIONNEUR



ACTIONNEUR



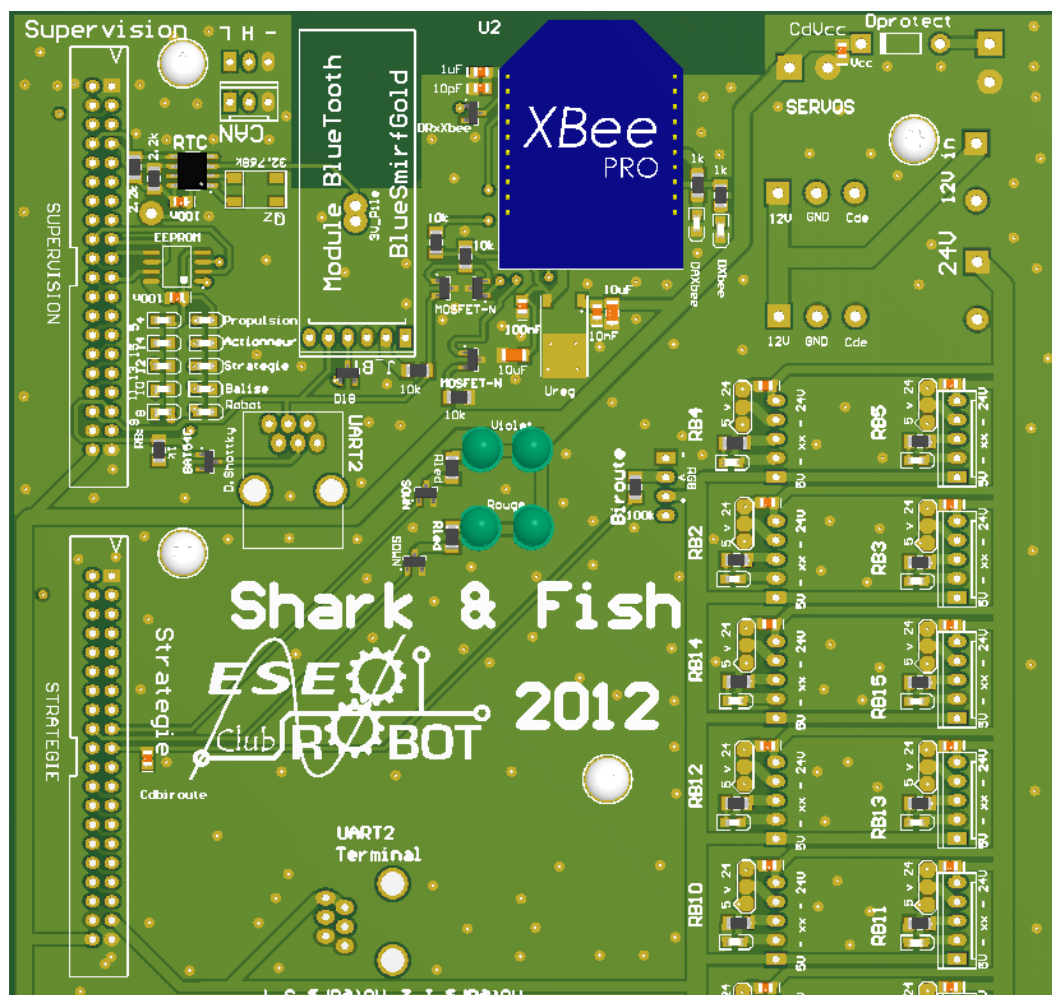
Sorties Tout Ou Rien 24V 2A

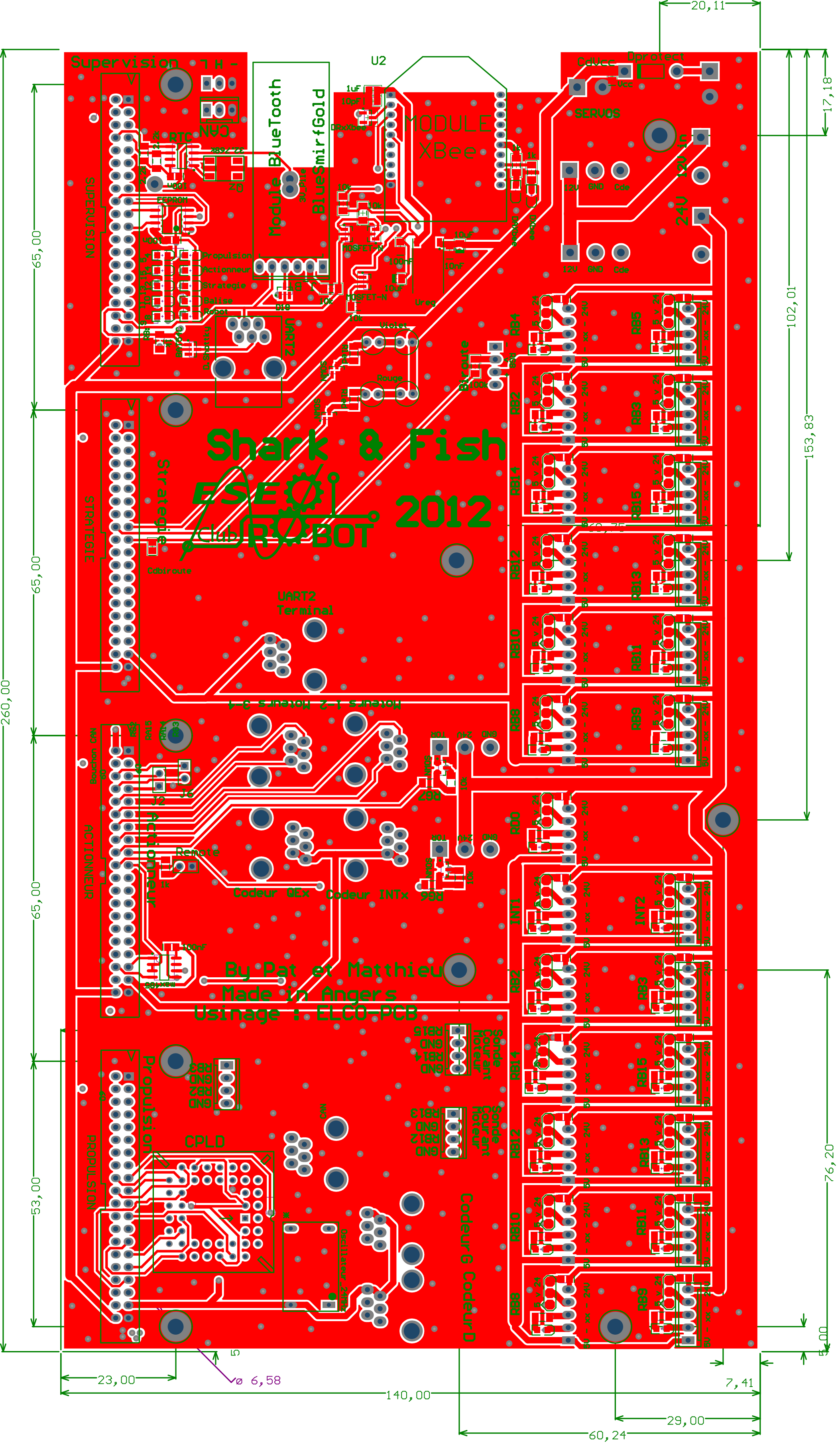


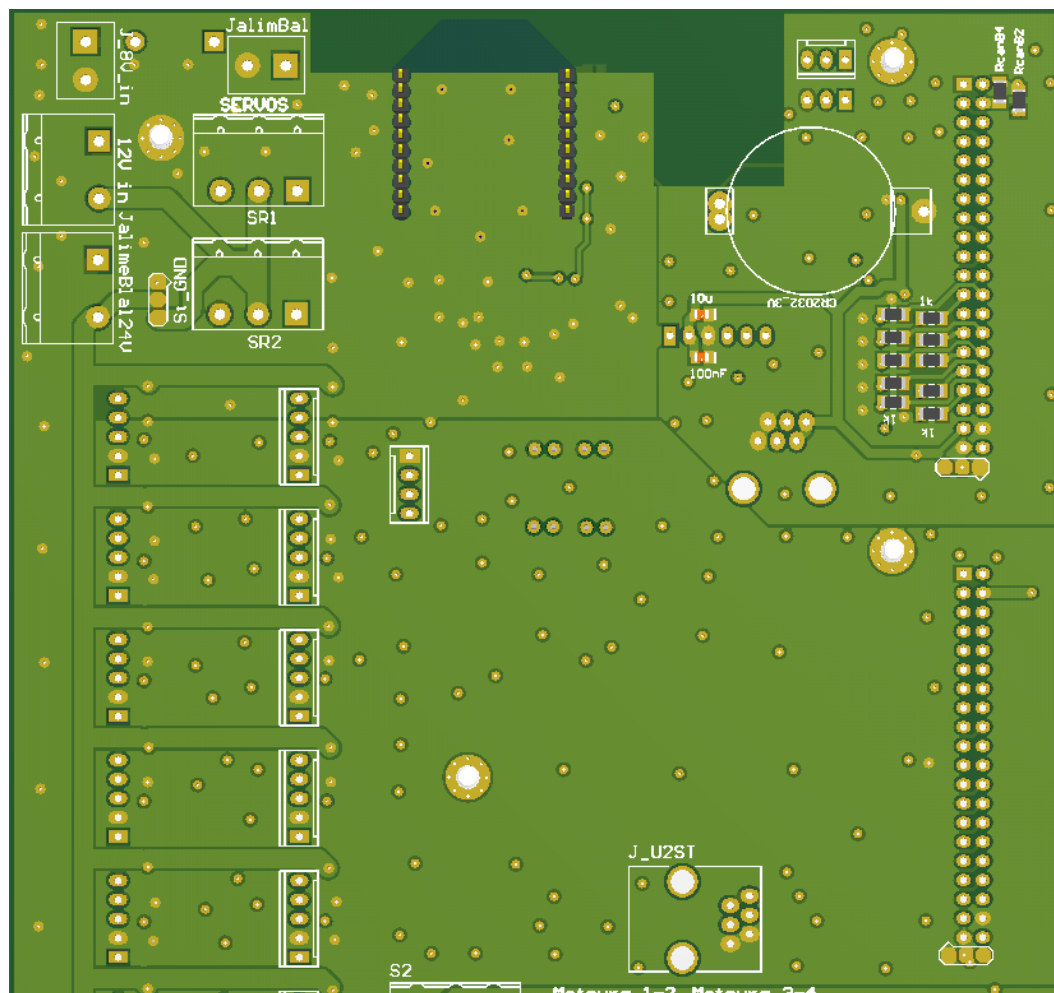
ATTENTION, erreur sur tout les HE10 du fdp 2011

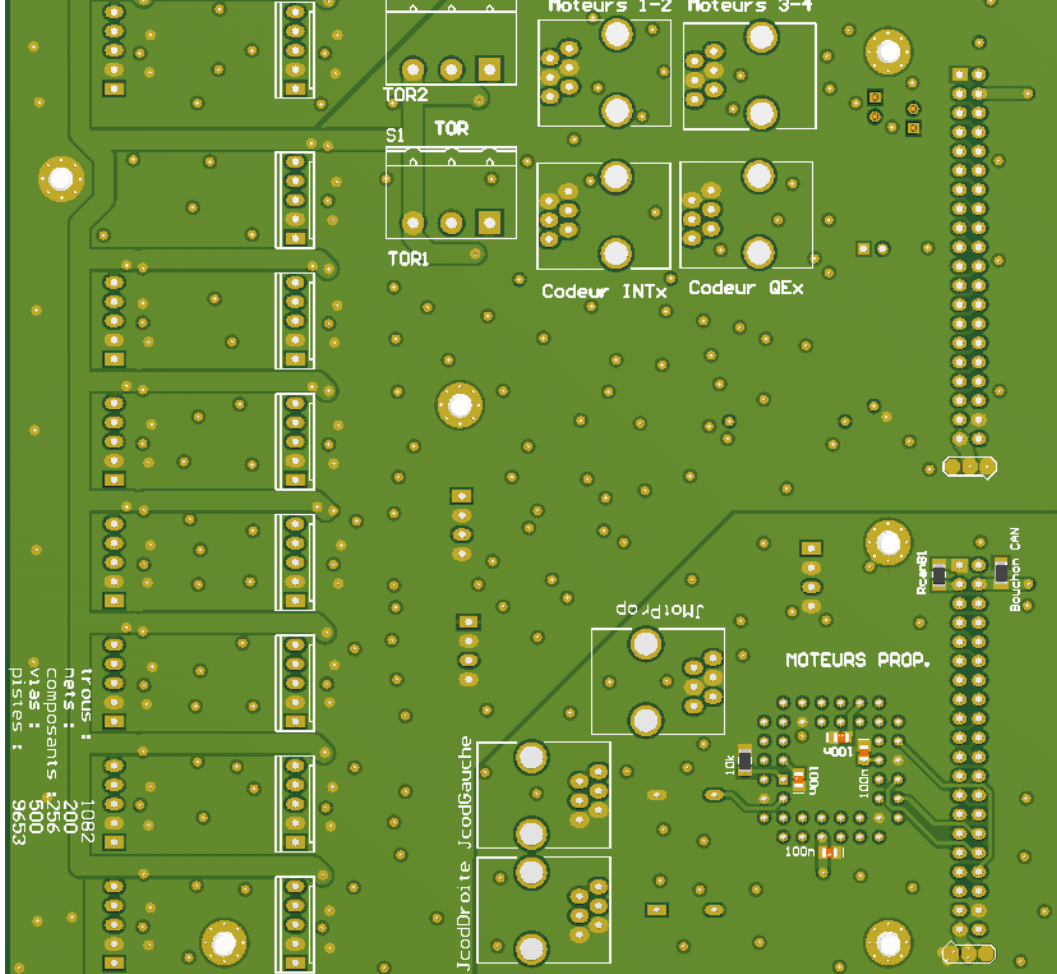
inversion Vcc <=> XXX_5V
(corrigé ici)

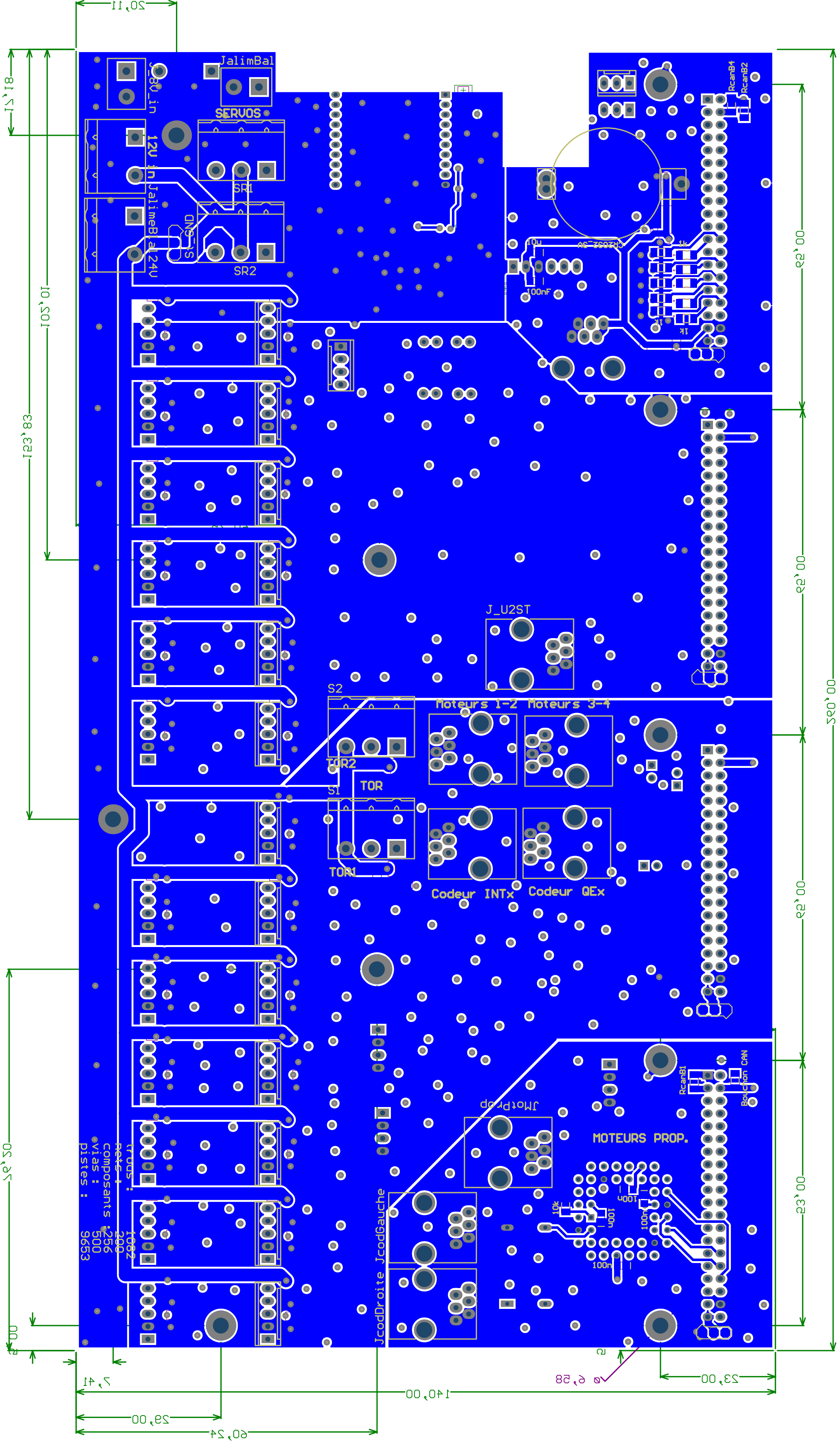
Titre		
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Date	10/01/2012	1
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Designator	Description	Comment	Value	Footprint	Quantity
		Oscillateur CPLD		DIL14_OSCILLATE R	1
ACTIONNEUR	Connector; HE10; 4 Position; Male	ACTIONNEUR		HE10/40_MAL_DRG T-FDP-ROBOT	1
CAN, CAN2	Header, 3-Pin	BARRETTE3		HE14_3	2
Cd24strat_PortStrat Cd24strat_PortStrat Cd24strat_PortStrat Cd24strat_PortStrat Cd24strat_PortStrat Cd24strat_PortStrat Cd24strat_PortStrat Cd24strat_PortStrat Cd24strat_PortStrat Cd24strat_PortStrat 0, Cd24strat_PortStrat 1, Cd24strat_PortStrat 2, CdAct__PortAct1 CdAct__PortAct2, CdAct__PortAct3, CdAct__PortAct4, CdAct__PortAct5, CdAct__PortAct6, CdAct__PortAct7, CdAct__PortAct8, CdAct__PortAct9, CdAct__PortAct10, CdAct__PortAct11, CdAct__PortAct12, CdAct__PortAct13, Cin2	Capacitor	10nF		C0805_N	26
Cd_BT_1	Capacitor	10uF		C0805_N	1
Cd_BT_2, Cd_EEPROM					

Cin2	Capacitor	10nF		C0805_N	20
Cd_BT_1	Capacitor	10uF		C0805_N	1
Cd_BT_2, Cd_EEPROM, Cd_MAX485, Cd_RTC, Cout2	Capacitor	100nF		C0805_N	5
Cd_Xb_1	Capacitor	1uF		C0805_N	1
Cd_Xb_2	Capacitor	10pF		C0805_N	1
Cin, Cout	Capacitor	10uF		C1206_N	2
CR2032	Battery, Pile	battery		Pile_boutton	1
D4, D6, D7, D8, D9, D10, D13, D16, D17, D19, D_Act_PortAct1, D_Act_PortAct2, D_Act_PortAct3, D_Act_PortAct4, D_Act_PortAct5, D_Act_PortAct6, D_Act_PortAct7, D_Act_PortAct8, D_Act_PortAct9, D_Act_PortAct10, D_Act_PortAct11, D_Act_PortAct12, D_Act_PortAct13, Dstrat_PortStrat1, Dstrat_PortStrat2, Dstrat_PortStrat3, Dstrat_PortStrat4, Dstrat_PortStrat5, Dstrat_PortStrat6, Dstrat_PortStrat7, Dstrat_PortStrat8, Dstrat_PortStrat9, Dstrat_PortStrat10, Dstrat_PortStrat11, Dstrat_PortStrat12					
	Typical LED	LED		LED_0805	35
D5, D18, DRxXbee	DIODE SCHOTTKY DOUBLE	Diode Shottky doub BAT54C		SOT23-3N	3
DAssociateXbee	Typical LED	LED Jaune		LED_0805	1
DBlue1, DBlue2, DRed1, DRed2	Typical LED	LED		LED_5mm	4
Dprotect	1 Amp General Purpose Rectifier	Diode 1N4001		DIO10.46-5.3x2.8	1
DXbee	Typical LED	LED Verte		LED_0805	1
J2, J6, Remote	Header, 2-Pin	BARRETTE2		HDR1X2	3
	Right Angle, Standard Profile, Offset Latch DECconnect,	UART2			

J37	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jack	UART2 SUPERVISION		RJ11_6/6	1
JalimBal	Terminal blocks, 2 pins, pitch=5mm	8V BALISE 2		BORNIER2	1
JalimeBlal24V	Terminal blocks, 2 pins, pitch=5mm	24V_in		BORNIER2_FEM_C OUDE	1
JcodDroite	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jack	CODEUR2		RJ11_6/6 - droit	1
JcodGauche	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jack	CODEUR1		RJ11_6/6 - droit	1
JMotProp	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jack	PROPULSION		RJ11_6/6 - droit	1
JUMP_STRAT__Po Strat1, JUMP_STRAT__Po Strat2, JUMP_STRAT__Po Strat3, JUMP_STRAT__Po Strat4, JUMP_STRAT__Po Strat5, JUMP_STRAT__Po Strat6, JUMP_STRAT__Po Strat7, JUMP_STRAT__Po Strat8, JUMP_STRAT__Po Strat9, JUMP_STRAT__Po Strat10, JUMP_STRAT__Po Strat11, JUMP_STRAT__Po Strat12, St_GND, STAct, STAct__PortAct1, STAct__PortAct2, STAct__PortAct3, STAct__PortAct4, STAct__PortAct5					

STAct__PortAct2, STAct__PortAct3, STAct__PortAct4, STAct__PortAct5, STAct__PortAct6, STAct__PortAct7, STAct__PortAct8, STAct__PortAct9, STAct__PortAct10, STAct__PortAct11, STAct__PortAct12, STAct__PortAct13, STProp, STStrat,					
	Goutte Strap_3	Goutte Strap_3		Goutte Strap_3	30
J_12V_in	Terminal blocks, 2 pins, pitch=5mm	0 - 12V		BORNIER2_FEM_C OUDE	1
J_8V_in	Terminal blocks, 2 pins, pitch=5mm	8V		BORNIER2	1
J_ACT_AN__PortAc 1, J_ACT_AN__PortAc 2, J_ACT_AN__PortAc 3, J_ACT_AN__PortAc 4, J_ACT_AN__PortAc 5, J_ACT_AN__PortAc 6, J_ACT_AN__PortAc 7, J_ACT_AN__PortAc 8, J_ACT_AN__PortAc 9, J_ACT_AN__PortAc 10, J_ACT_AN__PortAc 11, J_ACT_AN__PortAc 12, J_ACT_AN__PortAc 13					
	Header, 5-Pin	ACT_AN		HE14_5	13
J_ACT_COD_INT	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jac	CODEUR ACT IT		RJ11_6/6 - droit	1
J_ACT_COD_QEx	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jac	CODEUR ACT QEx		RJ11_6/6 - droit	1

J_ACT_COD_QEx	Offset Latch DECconnect, Flangeless PCB Jack	CODEUR ACT QEx		RJ11_6/6 - droit	1
J_ACT_MOT12	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jack	MOTEUR 1-2		RJ11_6/6 - droit	1
J_ACT_MOT_34	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jack	MOTEUR 3-4		RJ11_6/6 - droit	1
J_BIROUTE	Header, 4-Pin	BIROUTE		HE14_4	1
J_BT	Header, 6-Pin	MHDR1X6		HE14_6	1
J_STRAT_AN_Por Strat1, J_STRAT_AN_Por Strat2, J_STRAT_AN_Por Strat3, J_STRAT_AN_Por Strat4, J_STRAT_AN_Por Strat5, J_STRAT_AN_Por Strat6, J_STRAT_AN_Por Strat7, J_STRAT_AN_Por Strat8, J_STRAT_AN_Por Strat9, J_STRAT_AN_Por Strat10, J_STRAT_AN_Por Strat11, J_STRAT_AN_Por Strat12					
	Header, 5-Pin	STRAT_AN		HE14_5	12
J_U2ST	Right Angle, Standard Profile, Offset Latch DECconnect, Flangeless PCB Jack	UART2 STRATEGIE		RJ11_6/6 - droit	1
PROPULSION	Connector; HE10; 4 Position; Male	PROPULSION		HE10/40_MAL_DRO T-FDP-ROBOT	1
Qz		Quartz_ABS25		Quartz_ABS25	1
Q_Act1, Q_Act2, Qblue, Qred, QTxxbee, QTxxbee QXbee		Transistor MOSFET N-Channel MOSFET		SOT23-3N	7
R12, R13, RQ_act1,					

RQ_cpld, Qrco, QTxxXbee, QTxxXbee	N-Channel MOSFET	Transistor MOSFET		SOT23-3N	7
R12, R13, RQ_act1 RQ_act2	Resistor	100		R1206_N	4
R4, R6, R7, R8, R9, R10, R11, R14, R15 R16, RAssociateXbee, RledAct_PortAct1, RledAct_PortAct2, RledAct_PortAct3, RledAct_PortAct4, RledAct_PortAct5, RledAct_PortAct6, RledAct_PortAct7, RledAct_PortAct8, RledAct_PortAct9, RledAct_PortAct10, RledAct_PortAct11, RledAct_PortAct12, RledAct_PortAct13, RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat RledStrat_PortStrat 0, RledStrat_PortStrat 1, RledStrat_PortStrat 2, RremoteServo, Ru2rx_Sup, RXbee	Resistor	1K		R1206_N	39
Rbiroute	Resistor	100k		R1206_N	1
RcanB1, RcanB2, RcanB3, RcanB4	Resistor	60		R1206_N	4
Rp_act1, Rp_act2, RpTx, RpXbee, RrstCpld, RTXXbee, RTxXbee1	Resistor	10k		R1206_N	7
Rscl, Rsda	Resistor	2.2k		R1206_N	2
S1	Terminal blocks, 2 pins, pitch=5mm	TOR1		BORNIER3_FEM_COUDE	1
S2	Terminal blocks, 2 pins, pitch=5mm	TOR2		BORNIER3_FEM_COUDE	

S1	Terminal blocks, 2 pins, pitch=5mm	TOR1		BORNIER3_FEM_COUDE	1
S2	Terminal blocks, 2 pins, pitch=5mm	TOR2		BORNIER3_FEM_COUDE	1
Sonde_courant_1-2 Sonde_courant_3-4 Sonde_courant_PR P	Header, 4-Pin	BARRETTE4		HE14_4	3
SR1	Terminal blocks, 2 pins, pitch=5mm	servo1		BORNIER3_FEM_COUDE	1
SR2	Terminal blocks, 2 pins, pitch=5mm	servo2		BORNIER3_FEM_COUDE	1
STRATEGIE	Connector; HE10; 4 Position; Male	STRATEGIE		HE10/40_MAL_DROIT-FDP-ROBOT	1
SUPERVISION	Connector; HE10; 4 Position; Male	SUPERVISION		HE10/40_MAL_DROIT-FDP-ROBOT	1
U1	MAX 7000S 5V In-System Programmable CPLD, 64 Macrocell, 44-Pin PLCC, Speed Grade 10, Commercial Grade	CPLD EPM7064SLC44-10		PLCC44_SUPPORT	1
U2		XBee		MODULE_XBEE	1
UEEPROM	1 Mbit SPI Bus Serial EEPROM, 8-Pin SOIC, Industrial Temperature	25AA1024-I/SM		SOIJ-SM8_N	1
Umax485	Low-Power, Slew-Rate-Limited RS-485/RS-422 Transceiver	MAX485CSA		NSO8_N	1
Ureg	Three-Terminal Positive Voltage Regulator	1924880		369A-13	1
U_RTC	64 X 8 Serial Real-Time Clock	DS1307		SO8_N	1
V3, V4, V6, V7, V8, V10, V11, V12, V13, V14	Vis M3 X 6mm _TORX_Tête 6mm	Pad_M3		M3x6mm	10
Cd1_CPLD, Cd2_C	Capacitor	Condensateur	100n, 100nF, 100pF	C0805_N	6