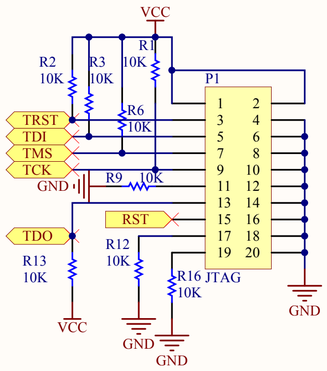
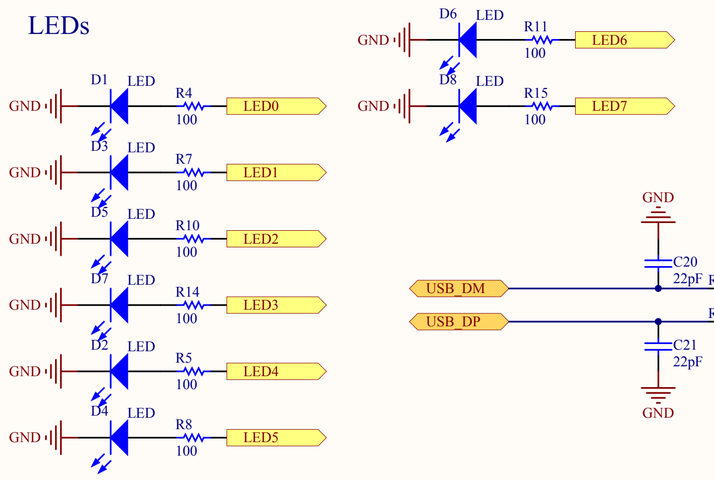
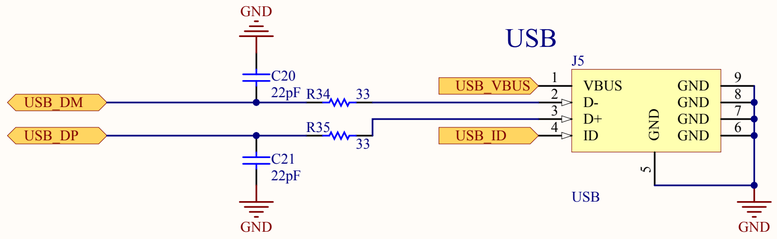
Connecteur JTAG



LEDs

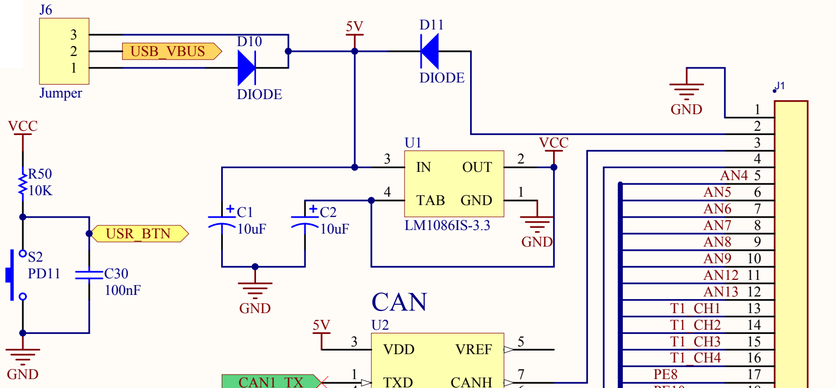


USB

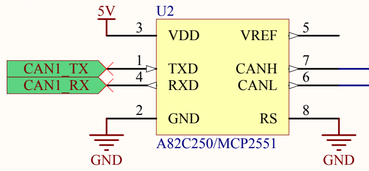


5V: Host (H)
DIODE: Slave (S)

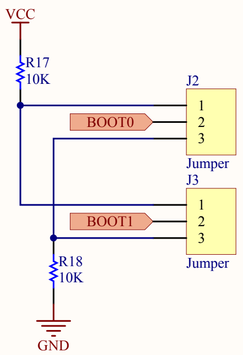
Alimentation



CAN

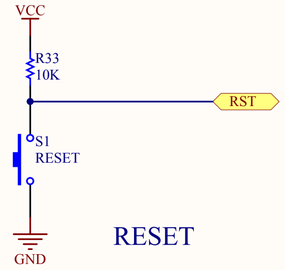


Configuration de boot

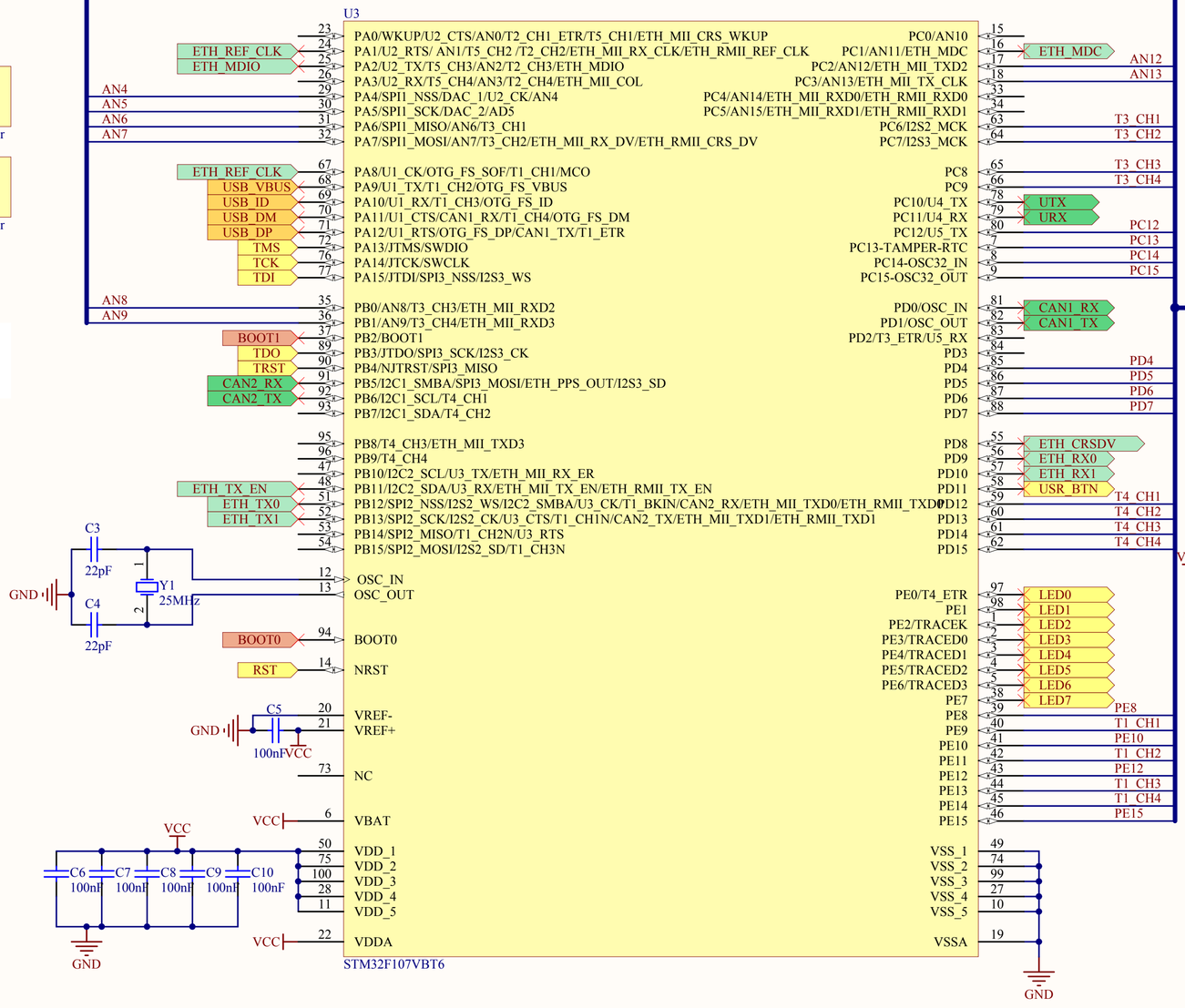


B1 B0 Boot device
x 0 Main Flash
0 1 System memory
1 1 Embedded SRAM

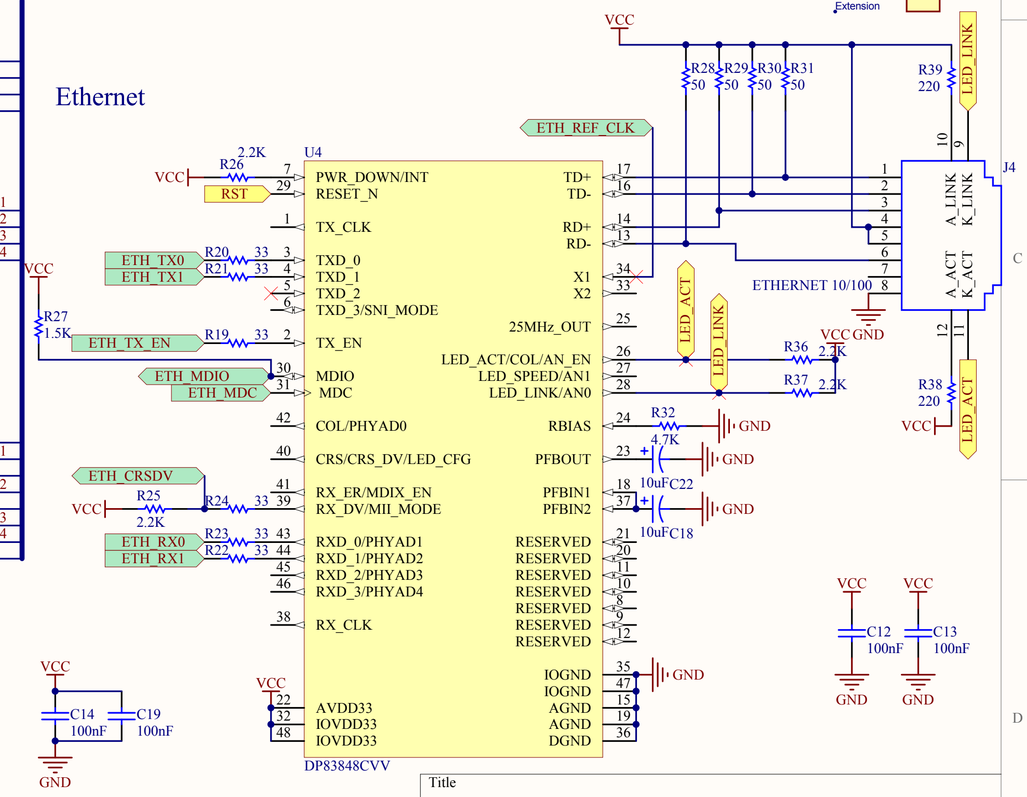
RESET



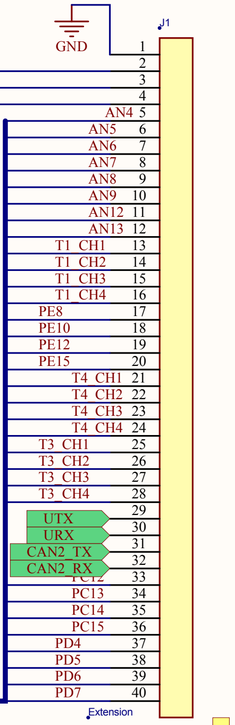
STM32F107VBT6



Ethernet



Extension



Title		
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Date: 24/03/2010		Sheet of
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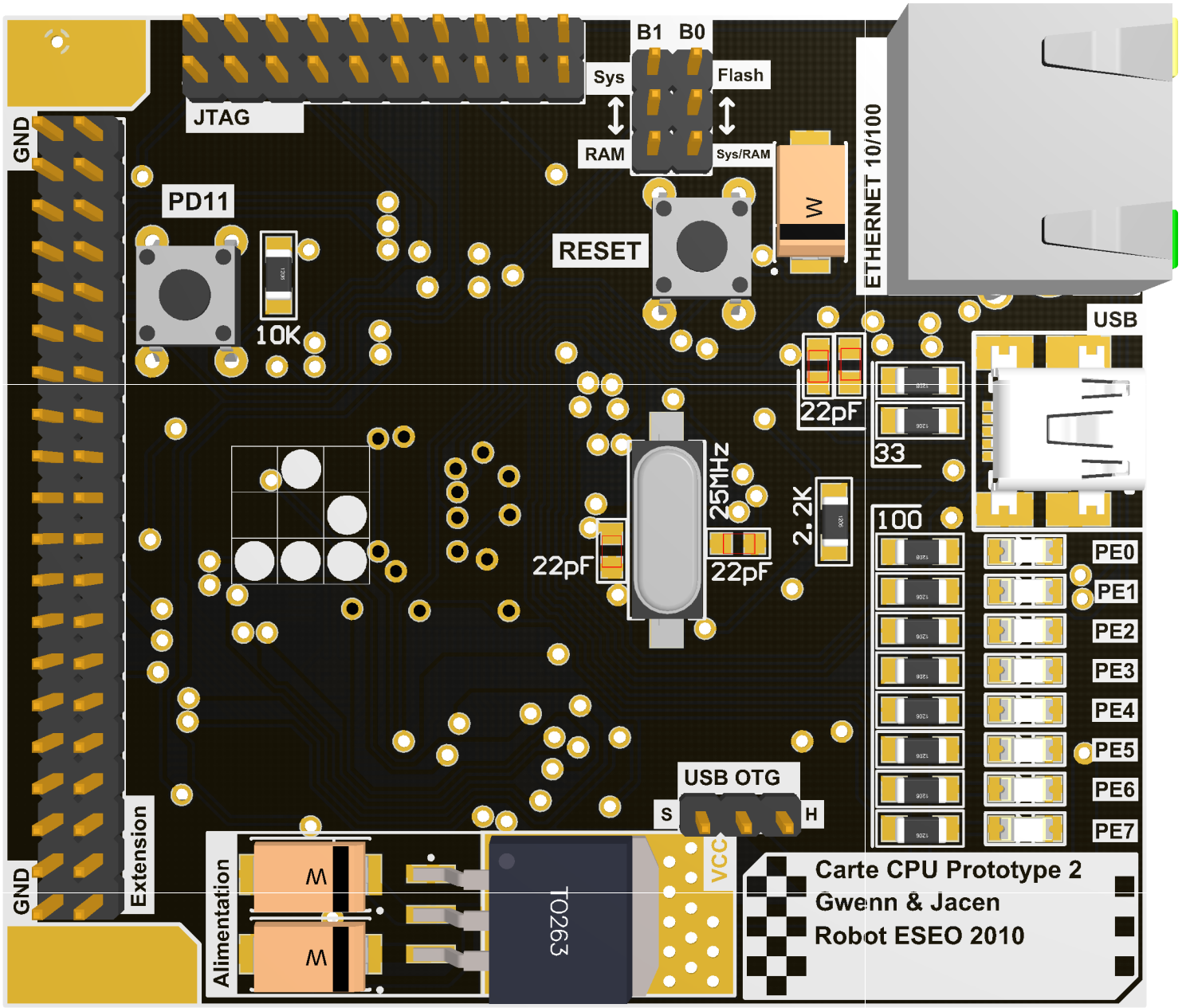
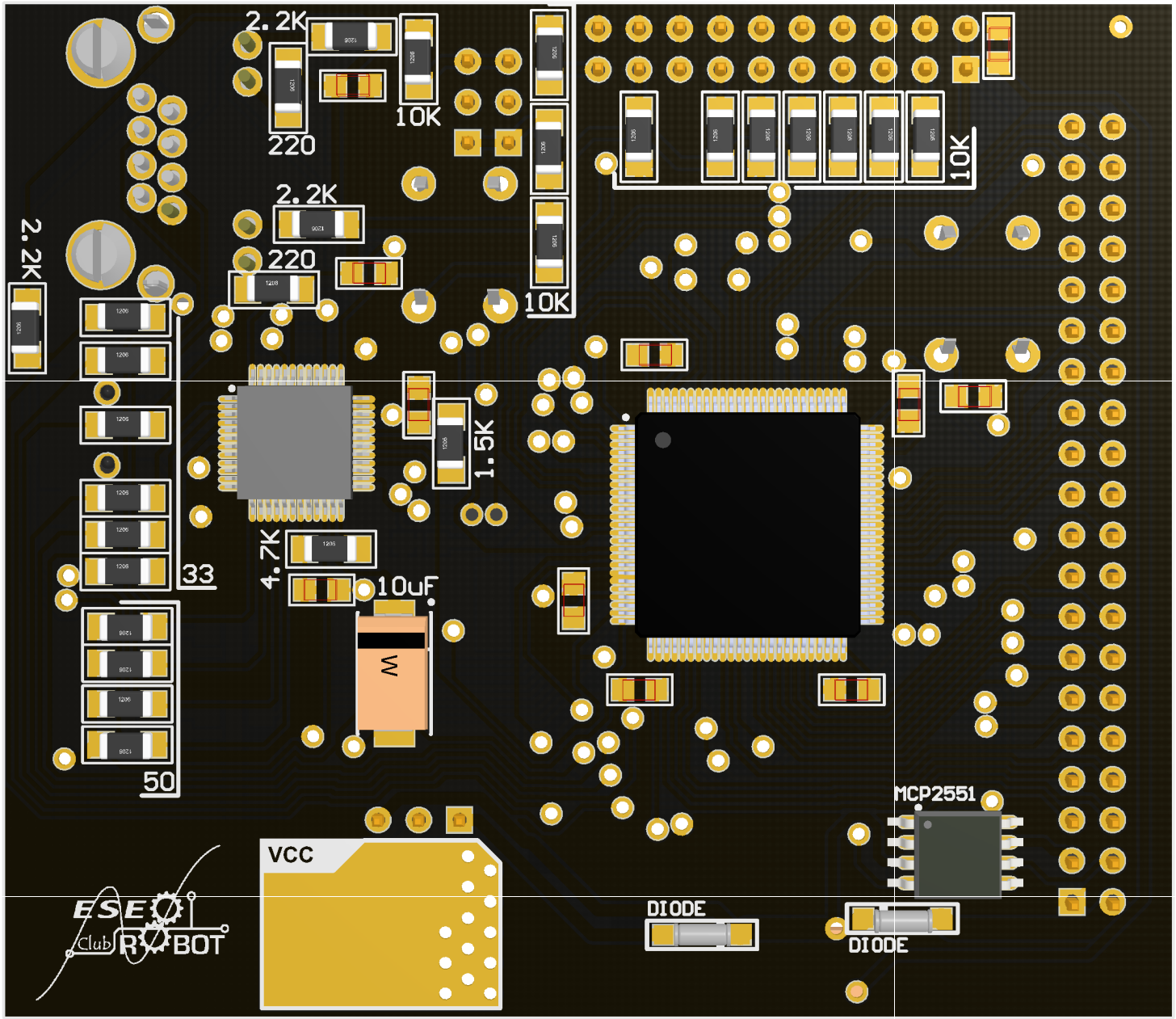

JTAG
B1 B0
Sys
Flash
RAM
Sys/RAM
ETHERNET 10/100
GND
PD11
10K
RESET
W
USB
22pF
33
25MHz
2.2K
100
22pF
22pF
PE0
PE1
PE2
PE3
PE4
PE5
PE6
PE7
USB OTG
S
H
GND
Extension
Alimentation
M
M
TO263
VCC
Carte CPU Prototype 2
Gwenn & Jacen
Robot ESEO 2010


2.2K
220
10K
2.2K
220
10K
2.2K
10K
1.5K
4.7K
10uF
33
50
MCP2551
VCC
DIODE
DIODE
ESE
Club
ROBOT

Designator	Comment	Description	Quantity
C1, C2, C18, C22	10uF	Polarized Capacitor (Surface Mount)	4
C3, C4, C20, C21	22pF	Capacitor, Capacitor (Semiconductor SIM Model)	4
C5, C6, C7, C8, C9, C10, C12, C13, C14, C19, C30	100nF	Capacitor (Semiconductor SIM Model)	11
D1, D2, D3, D4, D5, D6, D7, D8	LED	Typical RED, GREEN, YELLOW, AMBER GaAs LED	8
D10, D11	DIODE	Default Diode	2
J1	Extension		1
J2, J3, J6	Jumper	Header, 3-Pin	3
J4	ETHERNET 10/100	Right Angle, Standard Profile, RJ45-Keyed, Flange Mount PCB Jack	1
J5	USB	USB 1.1, Right Angle, SMT, A Type, Receptacle, 4 Position, White	1
P1	JTAG	Header, 10-Pin, Dual row	1
R1, R2, R3, R6, R9, R12, R13, R16, R17, R18, R33, R50	10K	Semiconductor Resistor	12
R4, R5, R7, R8, R10, R11, R14, R15	100	Resistor	8
R19, R20, R21, R22, R23, R24, R34, R35	33	Resistor	8
R25, R26, R36, R37	2.2K	Resistor	4
R27	1.5K	Resistor	1
R28, R29, R30, R31	50	Resistor	4
R32	4.7K	Resistor	1
R38, R39	220	Resistor	2
S1	RESET	Switch	1
S2	PD11	Switch	1
U1	LM1086IS-3.3	VCC	1
U2	A82C250/MCP2551	High Speed Can Transceiver	1
U3	STM32F107VBT6	STM32 ARM-based 32-bit MCU with 64 Kbytes Flash, 100-pin LQFP, Industrial Temperature	1
U4	DP83848CVV	PHYTER® Commercial Temperature Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver	1
Y1	25MHz	Crystal Oscillator	1