Bord BOM (Bill of Material)

Index	Name	QTY	Component	Package	Function
1	IC1	1	LM1117-3.3	SOT 223	Power regulator
2	IC2	1	MSP430G2533IPW20	TSSOP	MCU
3	IC3	1	TMP101NA/250	SOT-23	Digital temperature sensor
4	U1	1	2*7PIN	2.54mm	JTAG for debugger
5	J1, J2	2	8PIN	2.54mm	For diagnosis
6	J3	1	4PIN	2.54mm	UART
7	J4	1	3PIN	2.54mm	Using jumper to select power from debugger or micro USB charger
8	R1	1	470R	0805	
9	R2, R3, R4	3	10 k	0805	
10	R6	1	5 k	R-TRIMM64W	Generating an adjustable voltage to MCU's ADC input
11	R9	1	47 k	0805	
12	C1, C3	2	10 uF	CPOL-EU153CLV-0605 6.3 x 6.3 x 5.3	
13	C2, C4, C5	3	104	0805	
14	C6	1	1 nF	0805	
15	C8, C9	2	12 pF	0805	
16	C10	1	0.01 uF	0805	
17	LED	1	GREEN	0805	Indicating the power ON
18	Q1	1	12.000MHz HC-49S	12.000MHz HC-49S	Crystal oscillator
19	MICORUSB	1	micro USB type-B	SMD 5 contacts	Getting power from 5V micro USB charger

Debugger
FT232 UART to USB converter
Cable for connecting J3 to FT232
Jumper