

Project *USB Dongle*

Part *USB & RF*

File : *schematic.SchDoc*

Date:  
11.07.2014  
09:11:25

Revision: A

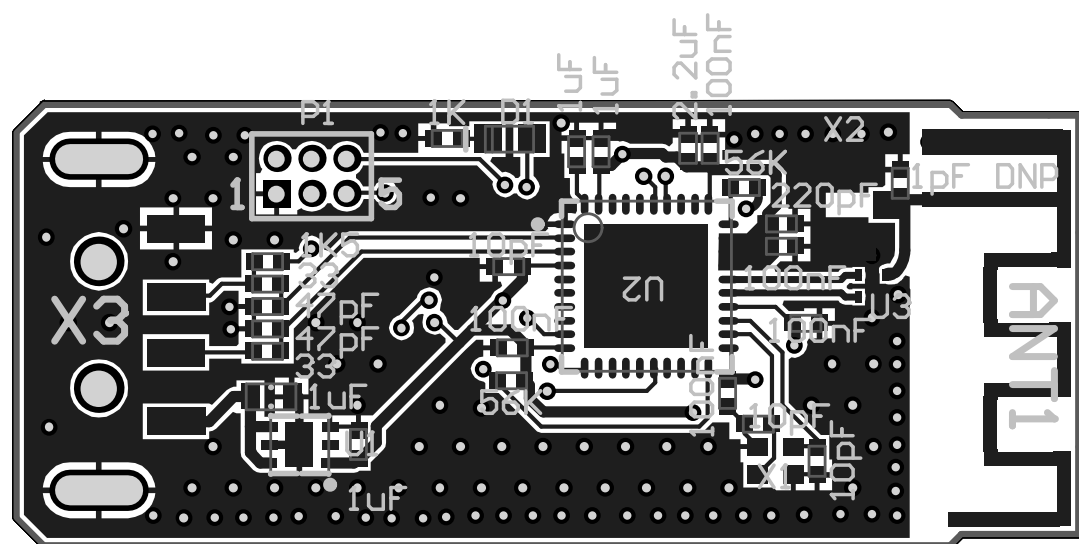
Page 1 de 1

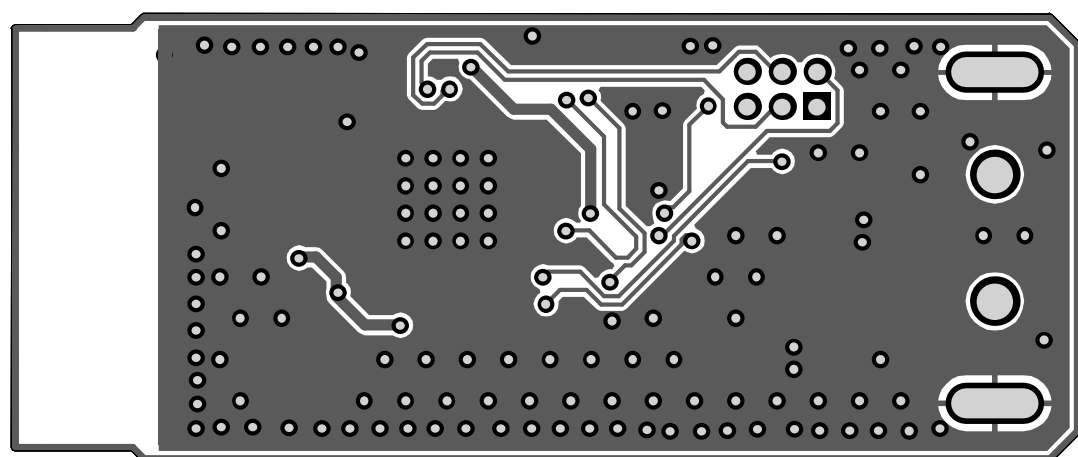
Philippe Rétornaz  
STI-IMT-LSRO1  
EPFL  
CH-1015 LAUSANNE

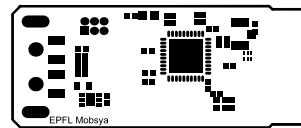
**Laboratoire de Systèmes Robotiques**

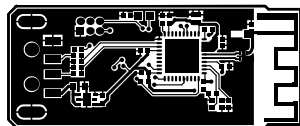


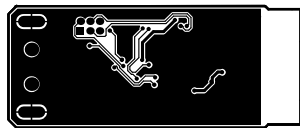
ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE

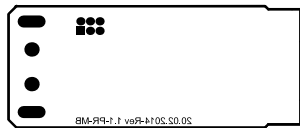


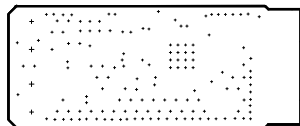




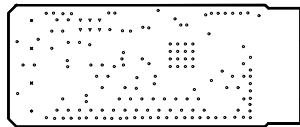












Symbol	Hit Count	Tool Size	Physical Length	Rout Path Length	PL
○	141	0.3mm (11.811mil)			PTH
▽	6	0.6mm (23.622mil)			PTH
✕	2	1.3mm (51.181mil)			NPT
☆	2	1.1mm (43.307mil)	3.2mm (125.984mil)	2.1mm (82.677mil)	PTH
	151 Total				

Slot definitions : Rout Path Length = Calculated from tool start centre position  
Physical Length = Rout Path Length + Tool Size = Slot length



Description	Comment	Designator	Footprint	Quantity
32Mhz Crystal, 15ppm	ABM11-32.000MHZ-B7G-T	X1	Abracon-ABM11	1
150mA LDO	TPS781330220DRVR	U1	QFN65P200X200X80-6N	1
Balun for CC253x	LFB182G45BG2D280	U3	LFB182G45BG2D280	1
Capacitor	100nF	C5, C6, C8, C9, C10	CAPC1005X05L	5
Capacitor	10pF	C13, C14, C15	CAPC1005X05L	3
Capacitor	1uF	C2, C4, C12	CAPC1005X05L	3
Capacitor	1uF	C3	CAPC1608X08L	1
Capacitor	2.2uF	C1	CAPC1005X05L	1
Capacitor	220pF	C7	CAPC1005X05L	1
Capacitor	47pF	C16, C17	CAPC1005X05L	2
Resistor	1K	R6	RESC1005X04L	1
Resistor	1K5	R1	RESC1005X04L	1
Resistor	33	R2, R5	RESC1005X04L	2
Resistor	56K	R3, R4	RESC1005X04L	2
SMD Red 0603 2V@20ma 56 mcd	19-21SURC/S530-A3/TR8	D1	DIOC1608X08N	1
System-on-Chip Solution for IEEE 802.15.4	CC2531F128RHAR	U2	QFN50P600X600X100-40L-2	1
USB CONNECTOR, A TYPE	1001-011-01101	X3	1001-011-01101	1