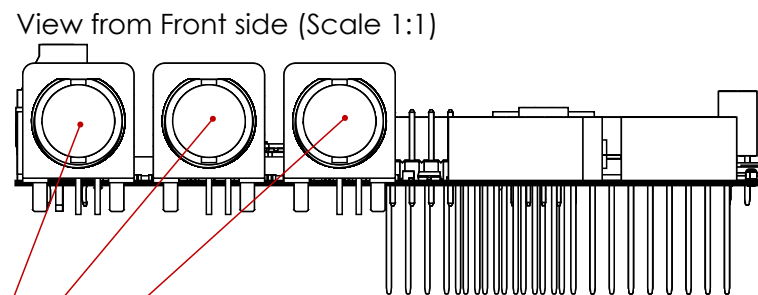
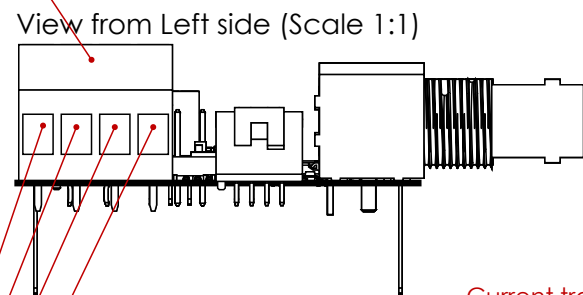
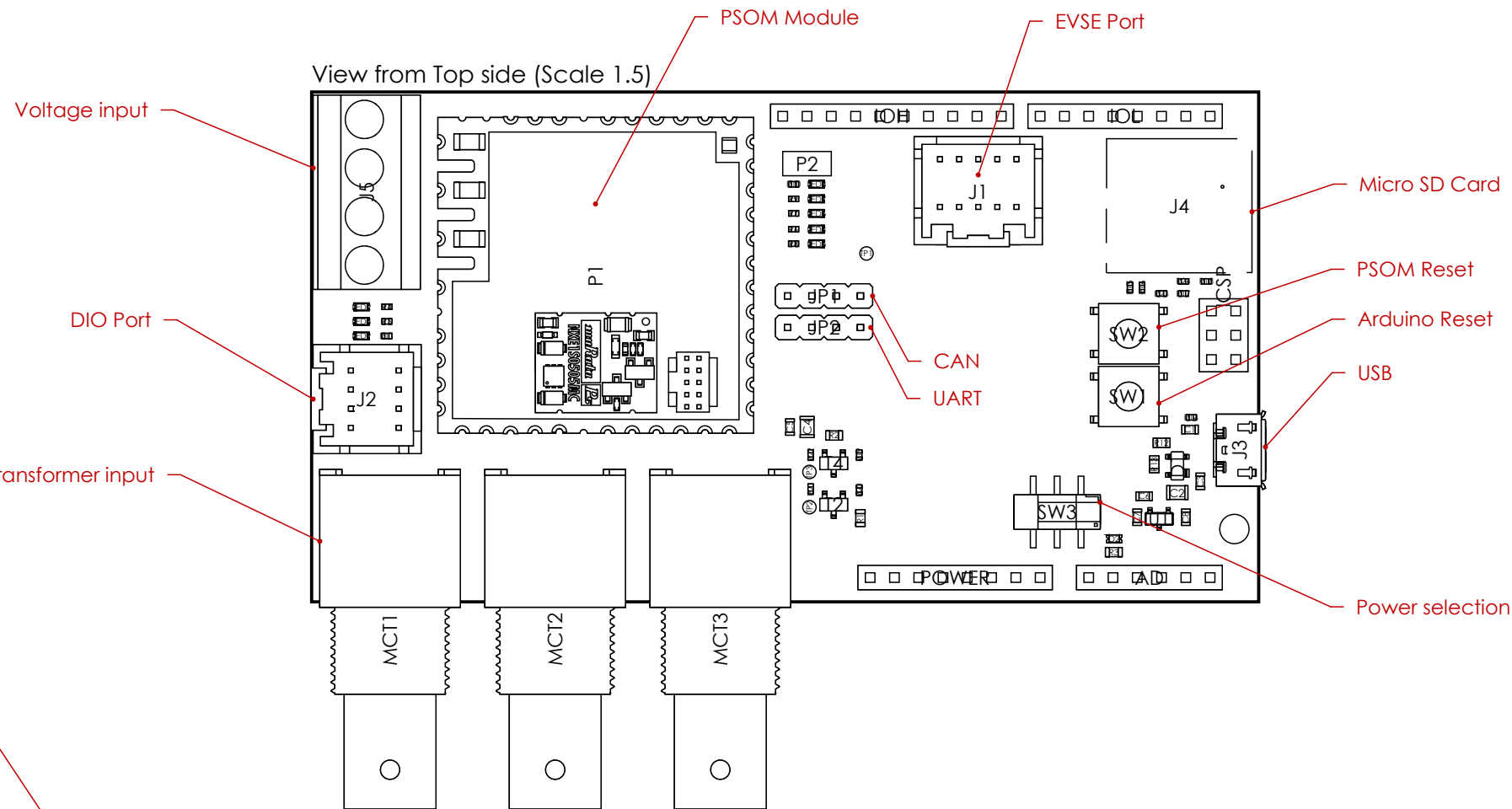
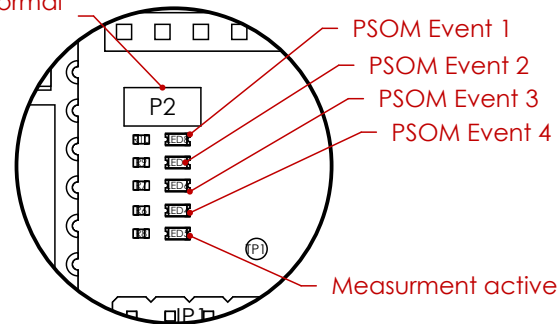


Project : PSOM Eval  
Version : 1  
Revision: 2

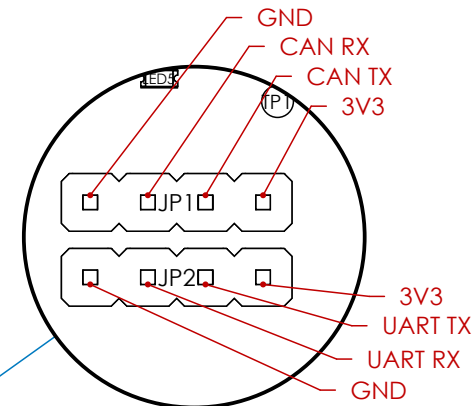
Project by Nils Minor  
Date: 09.01.2017



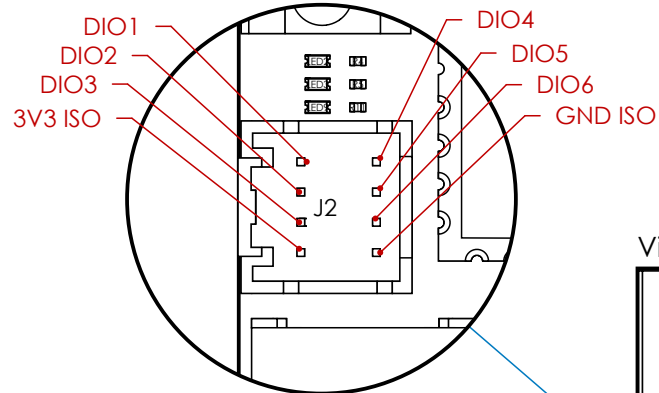
Boot jumper. Leave open for normal operation. Fit for boot-mode



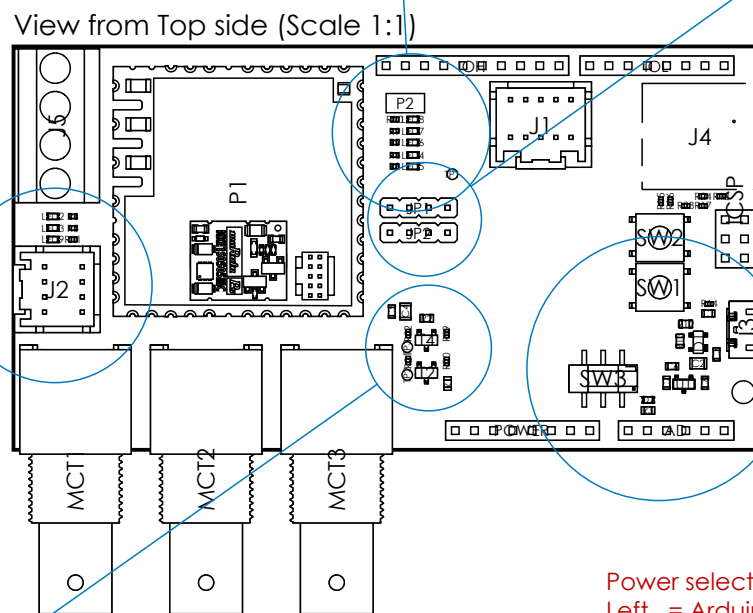
PSOM signals (Scale 2:1)



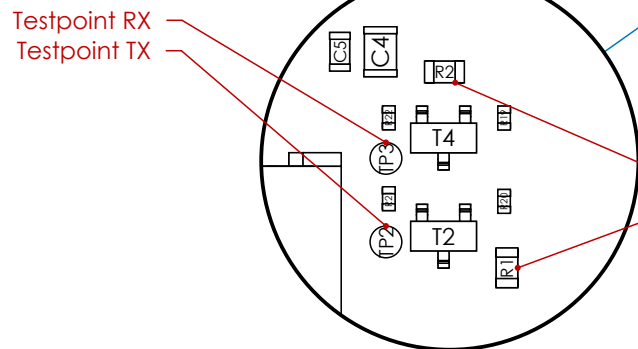
UART and CAN (Scale 3)



DETAIL DIO (Scale 2:1)



View from Top side (Scale 1:1)

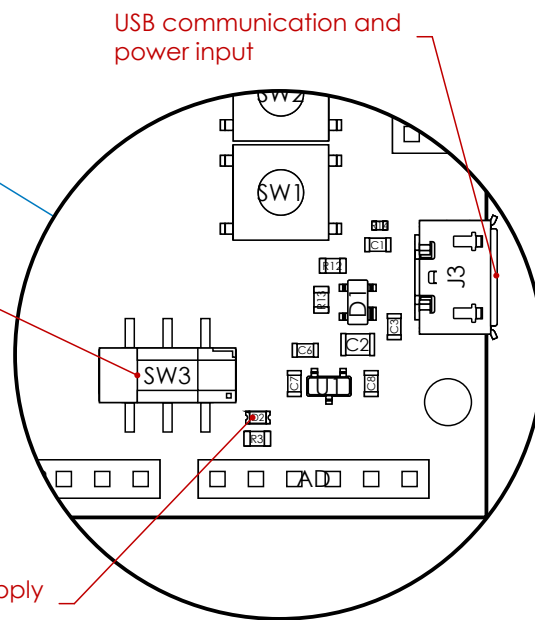


Uart setup (Scale 3)

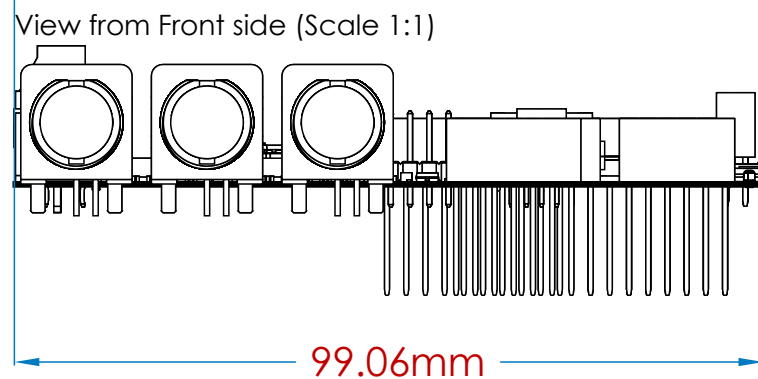
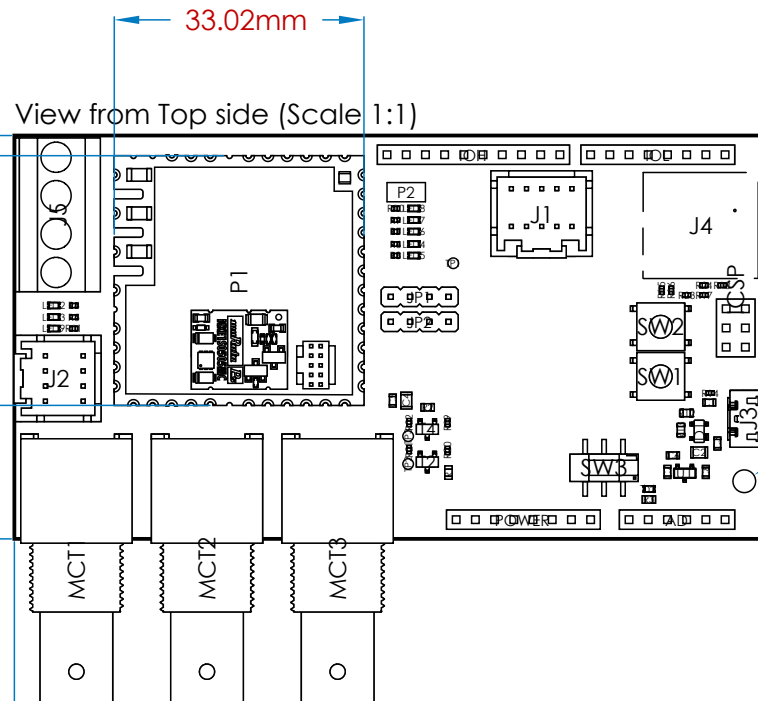
Default T2 and T4 are fitted for 5V/3V3 level shifting. Unsolder T2 and T4 and shorten R1 and R2 for direct connection (3V3 PSOM Uart)

Power selection.  
Left = Arduino  
Right = USB

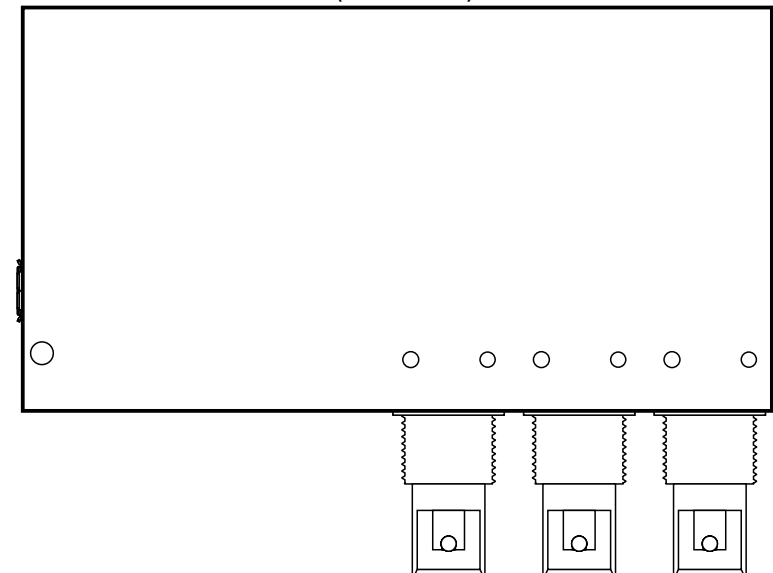
D2 indicates if ext. power supply is used



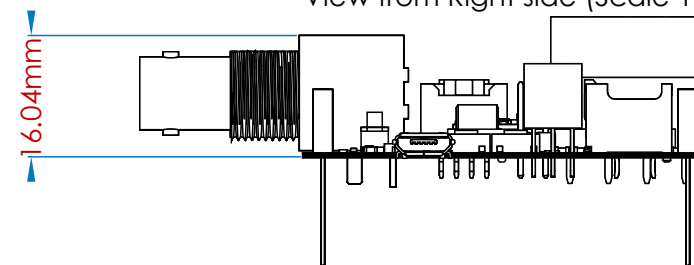
Power selection (Scale 2:1)



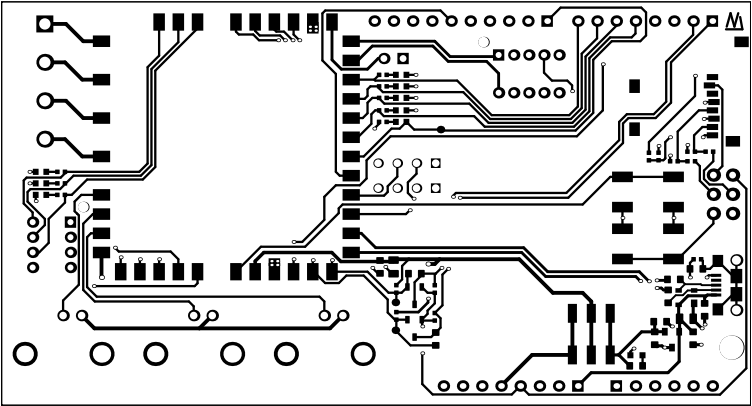
View from Bottom side (Scale 1:1)



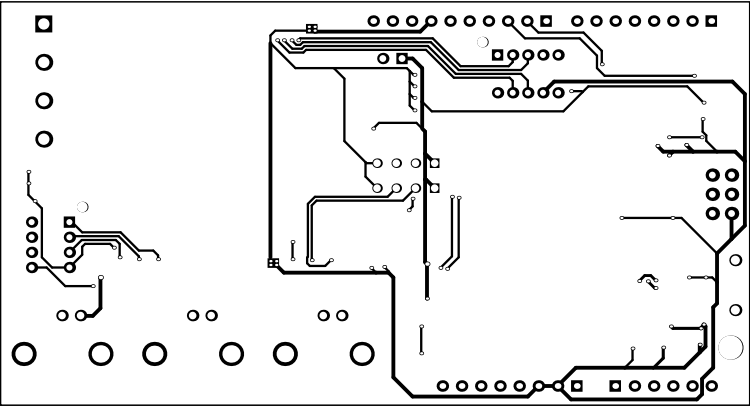
View from Right side (Scale 1:1)



Top Layer (Scale 1:1)



Bottom Layer (Scale 1:1)

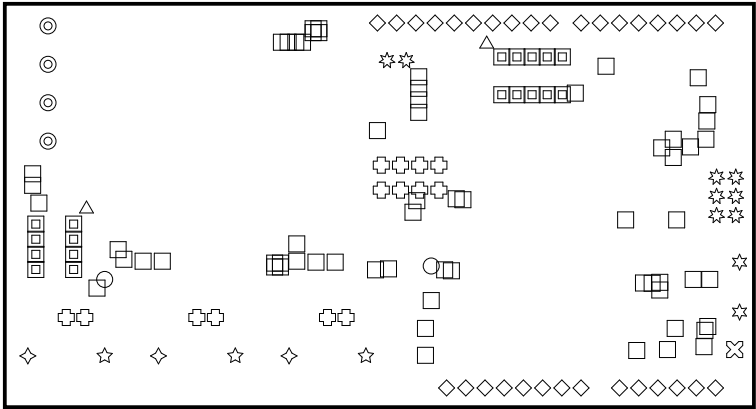


Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Paste			Paste Mask	GTP
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.01mm	Solder Resist	Solder Mask	GTS
Copper	Top Layer	0.036mm		Signal	GTL
		0.32mm	FR-4	Dielectric	
Copper	Bottom Layer	0.036mm		Signal	GBL
Surface Material	Bottom Solder	0.01mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
	Bottom Paste			Paste Mask	GBP

Total thickness: 0.411mm

Drill Drawing View (Scale 1:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	64	0.3mm	Plated	None
○	2	0.46mm	Plated	None
◇	32	0.76mm	Plated	None
▣	18	0.8mm	Plated	None
☆	8	0.9mm	Plated	None
⊕	14	1mm	Plated	None
☆	2	1.2mm	Plated	None
△	2	1.4mm	Non-Plated	None
◎	4	1.5mm	Plated	None
◇	3	2.2mm	Plated	None
☆	3	2.3mm	Plated	None
⊗	1	3.2mm	Plated	None
	153 Total			

Bill Of Materials

Item	Designator	Comment	Quantity
1	AD	AD	1
2	C1-C8	approved sub OK	8
3	D1	PRTR5V0U2X	1
4	D2	150060RS75000	1
5	ICSP	ICSP	1
6	IOH	IOH	1
7	IOL	IOL	1
8	J1	62401021622	1
9	J2	62400821622	1
10	J3	MicroUSB-B	1
11	J4	693071010811	1
12	J5	691244510004	1
13	JP1, JP2	J1X4	2
14	LED2-LED9	L0603G	8
15	MCT1-MCT3	Value	3
16	P1	PSOM Module	1
17	P2	Header 2	1
18	POWER	POWER_UNO	1
19	R3-R24	Thick Film	22
20	SW1, SW2	PB SW	2
21	SW3	Switch	1
22	T2, T4	BSS138	2
23	U1	AP7333-33SAG-7	1