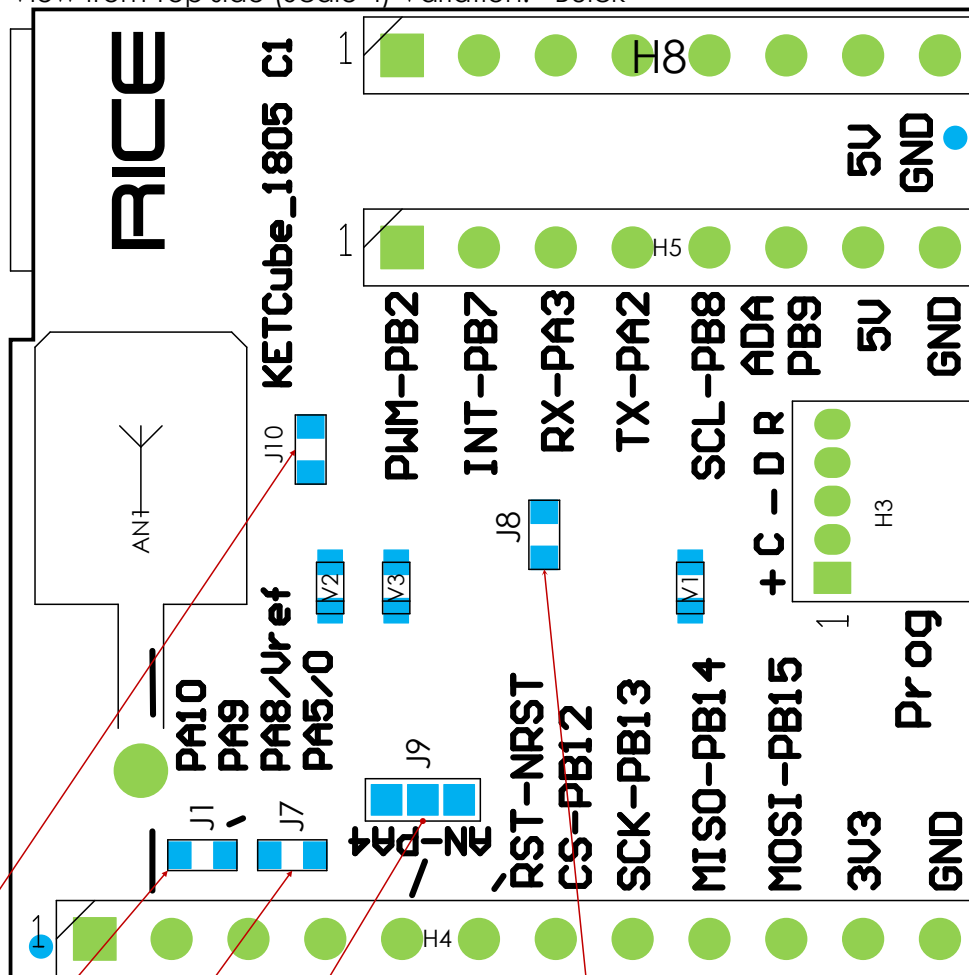


View from Top side (Scale 4) Variation: =Bulck



Solder jumpers

- 1 J10 - Vref to 3V (needed for ADC)
- 2 J1 - interconnection PA8 to pin PA/Vref
- 3 J7 - interconnection Vref to pin PA/Vref
- 4 J9 - interconnection PA0 or PA5 to pin PA5/PA0
- 5 J8 - interconnection PA5 to VDD_TCXO
- 6 J6 - interconnection SDA (I2C) for IC3
- 7 J5 - interconnection SCL (I2C) for IC3
- 8 J3 - interconnection VDD of TCXO with 3V3 or PA12
- 9 J4 - Connect 5V from USB to pin headers H4 and H8
- 10 J2 - interconnection VDD_USB to 3V3

RICE

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Univerzita 8 306 14 Plzeň Czech

Size: A4

Date: 02.05.2018

Title: KETCube

TOP

Author: Jiri Cengery

Subtitle: ASM view

Variant:
Bulck

Checked by: Jan Belohoubek

Nr: KETCube_1805

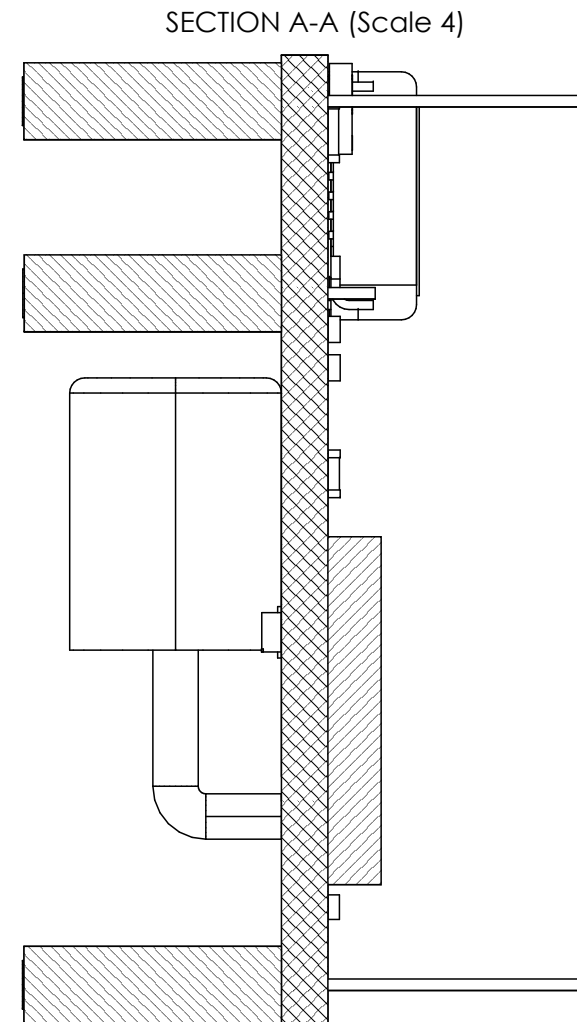
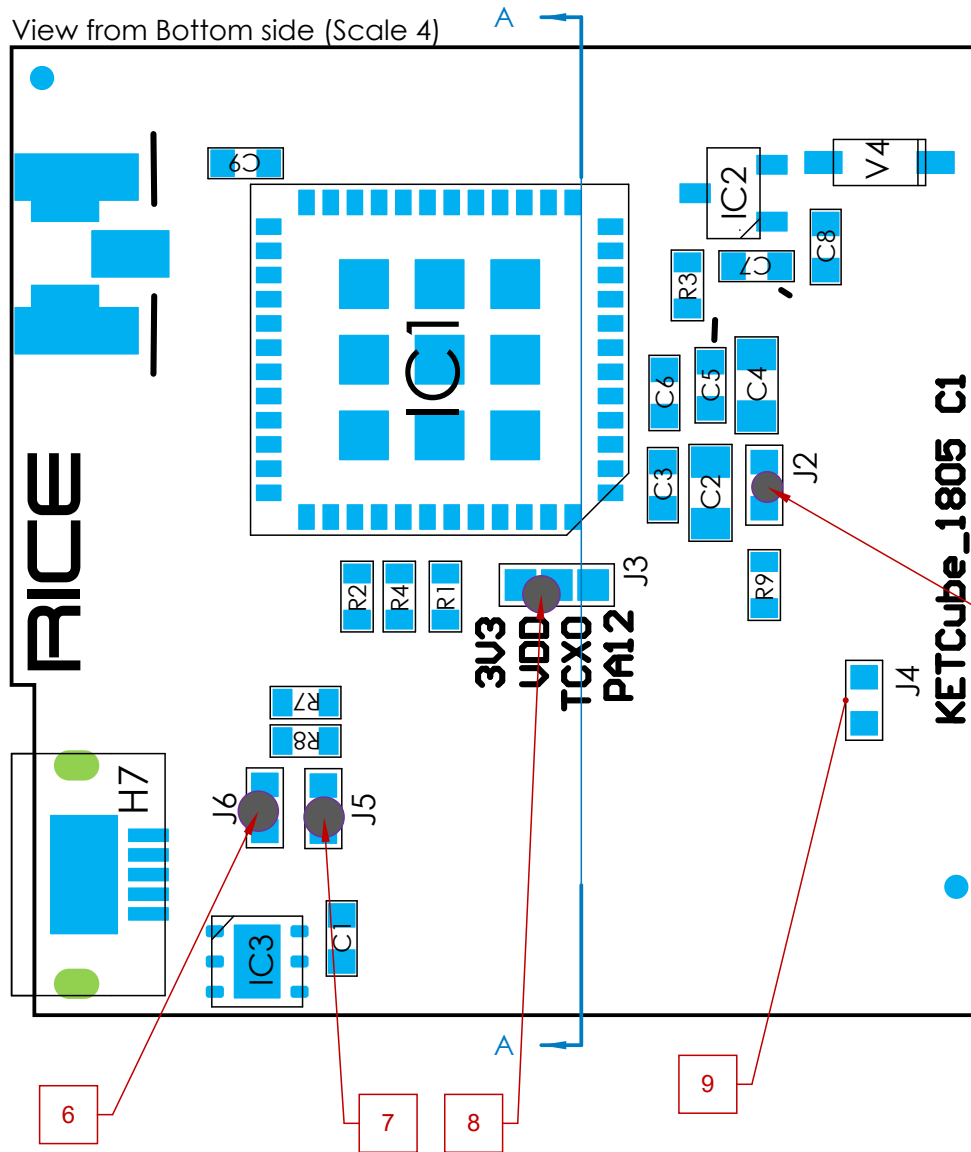
Revision: C1

Approved by: Petr Kaspar

Type: prototype

Sheet 1 of 3

File: KETCube.PCBDwf



RICE

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Nr: KETCube_1805

Revision: C1

Aprooved by: Petr Kaspar

Type: prototype

Sheet 2 of 3

File: KETCube.PCBDwf

Bill Of Materials

Designator	Name	Description	Footprint	Quantity
R2, R3, R4	1.00k	RES 0603 1.00k 1% 100ppm SMD thick film	sm_res_0603	3
C5, C9	1.00u	CAP CER 1.0UF 16V X7R 10% 0603	sm_cap_0603	2
R7, R8	2.20k	RES 0603 2.20k 1% 100ppm SMD thick film	sm_res_0603	2
R1, R9	10.0k	RES 0603 10.0k 1% 100ppm SMD thick film	sm_res_0603	2
C2, C4	10.0u	CAP CER 10.0u 16V X6S 10% 105°C 0805	sm_cap_0805	2
C1, C3, C6, C7, C8	100n	CAP CER .10UF 50V X7R 10% 0603	sm_cap_0603	5
H5	2212S-08SG-85	CON Receptacle 1x8 100 mils, hight 8.5mm	TH_CON_REC1x8_PIT100	1
AN1	ANT-868-JJB-RA	MOD Antenna, PCB mount, Perm Mnt Mini, 90deg, 868MHz	TH_ANT_868MHZ_90DEG	1
IC1	CMWX1ZZABZ-078	Lora modul Murata (STM32L, 868 MHz, 915 MHz) 12 x 12 mm	TH_MOD_PIN48_LoRa_Murata	1
H1	CON SMA003.062	SMA	SM_CON_SMA_F_EDGE_LINX	1
FID1, FID2, FID3, FID4	Fiducial	Fiducial local circle 0.8mm	SM_mch_FIDUCIAL_32	4
IC3	HDC1080	ICS Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor	SM_IO_WSON6_PIT40	1
H3	Header_1x5	CON 1x5pin header 50mill, righ , L 4mm	TH_CON_HDR1X5_PIT50_RIGHT	1
V3	L1G	OPT LED green 570nm 2mA 3,92mcd 0603	sm_opt_led0603	1
V1, V2	L1R	OPT LED red 630nm 2mA 7,1mcd 0603	sm_opt_led0603	2
V4	MBR0520LT	DIO schottky 20V 0.5A SOD123	SM_DIO_SOD123	1
IC2	MCP1700T-3302E	ICS LDO regulator Vout=3.3V, 250mA, Vin=6V, SOT23-3, Vdrop = 200mV	sm_io_sot23_pin3	1
H8	SSQ-108-03-F-S	CON Receptacle 1x8 100 mils, leads length 10mm	TH_CON_REC1x8_PIT100_L400	1
H4	SSQ-112-03-F-S	CON Receptacle 1x10 100 mils, leads length 10mm	TH_CON_REC1x12_PIT100_L400	1
H2	U.FL-R-SMT-1	CON 3pin, Ultra Small Surface Mount Coaxial Connectors, up to 6GHz	SM_CON_U.FL_R_SMT_1	1
H7	ZX62WD1-B-5PC	CON USB micro B, USB 2; 5 pins; righ angle, PCB mount SMT	SM_CON_USB_Micro_B_ZX62WD1	1



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Sheet 3 of 3

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