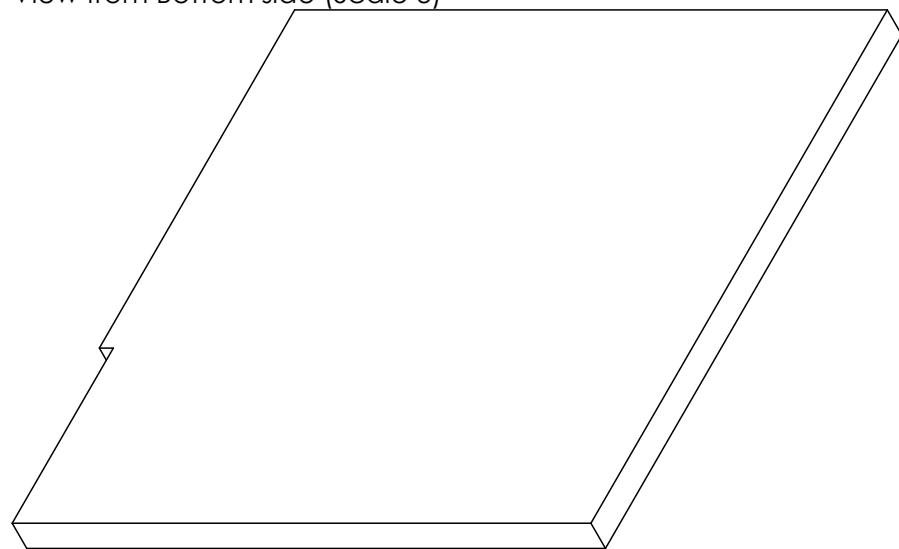
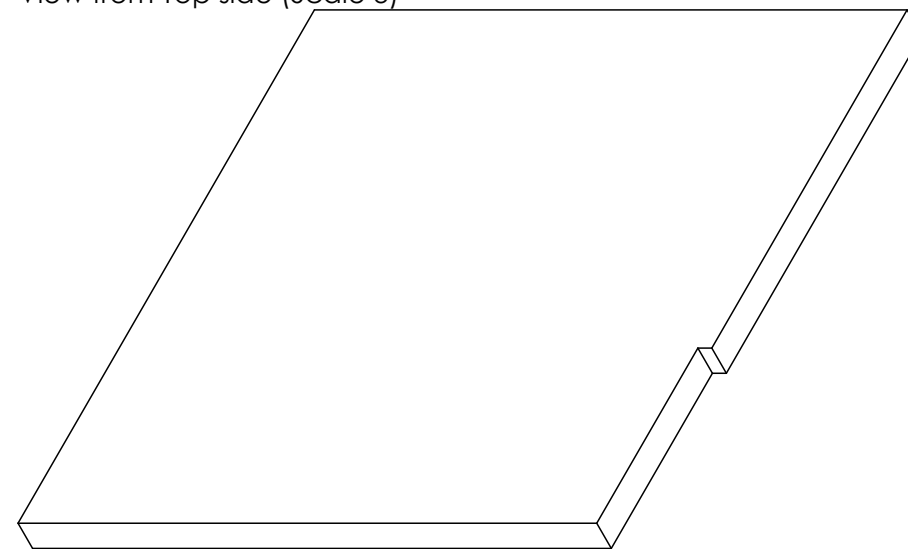


Regional Innovation Centre for Electrical Univerzitni 8      306 14 Plzen      Czech	Size: A4	Date: 27.09.2018	Title: KETCube		BOT
	Author: Jiri Cengery		Subtitle: ASM view		Variant: Bulck
	Checked by: Jan Belohoubek		Nr: KETCube_1808	Revision: E1	
	Aprooved by: Petr Kaspar		Type: prototype	Sheet 2 of 5	
			File: KETCube.PCBDwf		

View from Bottom side (Scale 3)



View from Top side (Scale 3)



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Type: prototype

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File: KETCube.PCBDwf

# Bill Of Materials - TOP

Line #	Designator	Name	Description	Footprint	Quantity
	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
	FID5, FID6	FID	Fiducial global Paste circle 1mm	TH_mch_FIDUCIAL_PASTE_D10M_round	2
	H3	Header_1x5	CON 1x5pin header 50mill, righ , L 4mm	TH_CON_HDR1X5_PIT50_RIGHT	1
	V1, V2	KPTD-1608LVSECK-J3-PF	OPT LED red 625nm 2mA 50mcd 1.8V 0603	sm_opt_led0603_h37_opp	2
	V3	KPTD-1608LVZGCK	OPT LED green 525nm 2mA 220mcd 2.65V 0603	sm_opt_led0603_h37	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

# Bill Of Materials - BOT

Line #	Designator	Name	Description	Footprint	Quantity
	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
	R4	330	RES 0603 330R 1% 100ppm SMD thick film	sm_res_0603	1
	R2, R3	750	RES 0603 750R 1% 100ppm SMD thick film	sm_res_0603	2
	IC1	CMWX1ZZABZ-078	Lora modul Murata (STM32L, 868 MHz, 915 MHz) 12 x 12 mm	TH_MOD_PIN48_LoRa_Murata	1
	IC3	HDC1080	ICS Low Power, High Accuracy Digital Humidity Sensor with Temperature Sensor	SM_IO_WSON6_PIT40	1
	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
	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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Layer Stack Legend

	Material	Layer	Thickness	Dielectric Material	Type	Gerber
		Top Paste			Paste Mask	GTP
		Top Overlay			Legend	GTO
	Surface Material	Top Solder	0.010mm	Solder Resist	Solder Mask	GTS
	Copper	Top Layer	0.035mm		Signal	GTL
	Core		1.500mm	FR-4	Dielectric	
	Copper	Bottom Layer	0.035mm		Signal	GBL
	Surface Material	Bottom Solder	0.010mm	Solder Resist	Solder Mask	GBS
		Bottom Overlay			Legend	GBO
		Bottom Paste			Paste Mask	GBP
Total thickness: 1.590mm						

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