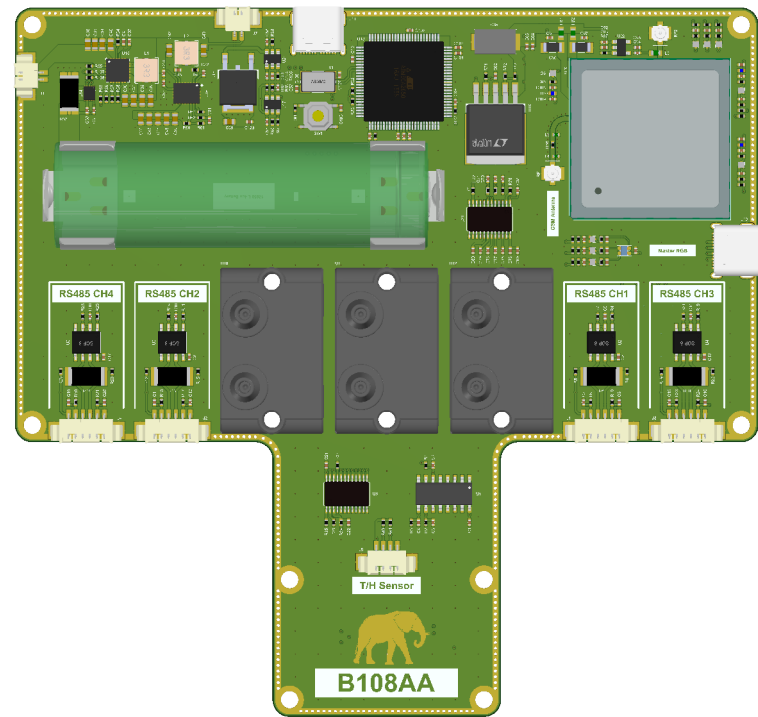
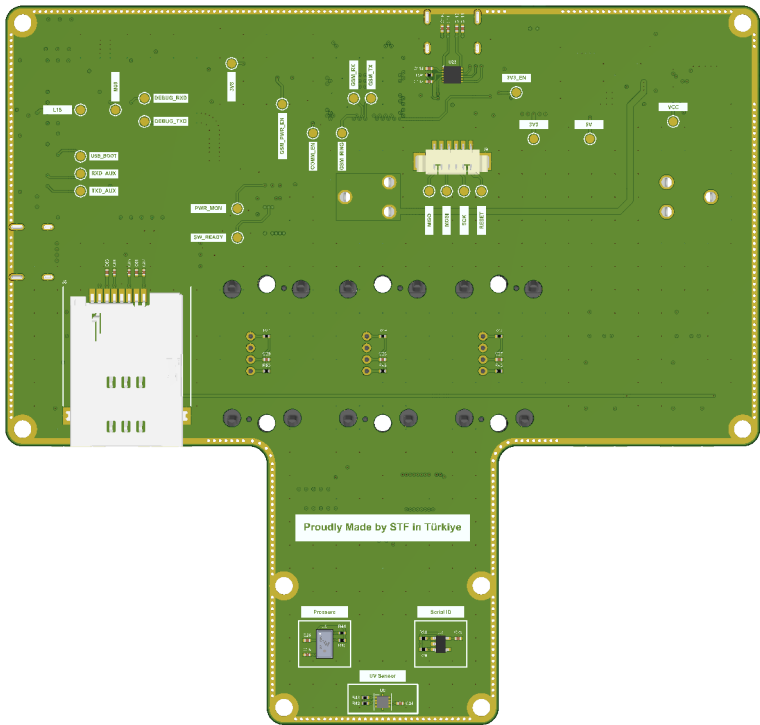


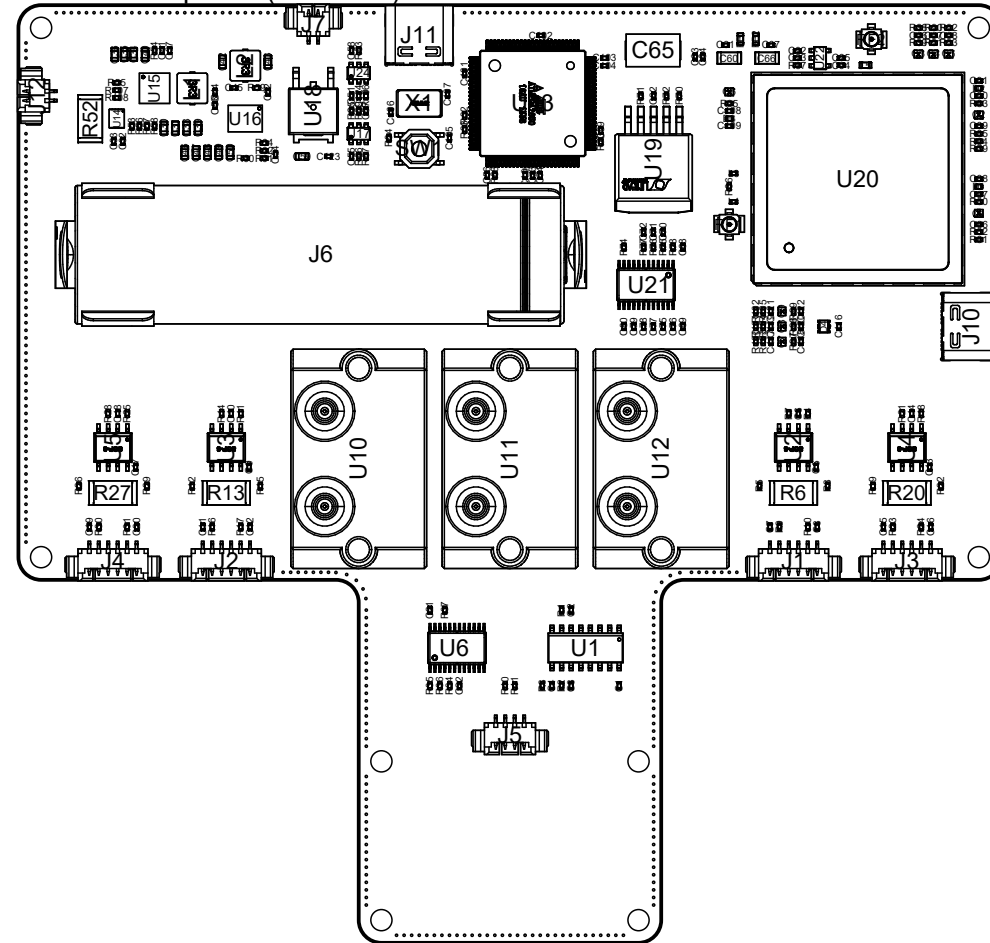
Realistic View



Realistic View



View from Top side (Scale 1:1)



Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
	Surface Material	0.03mm	SM-001	Solder Mask	GTS
	Nickel, Gold	0.02mm		Surface Finish	
CF-004	Top Layer	0.04mm		Signal	GTL
Prepreg		0.21mm	PP-022	Dielectric	
CF-004	Int1	0.04mm		Signal	G1
Core		0.99mm	Core-042	Dielectric	
CF-004	Int2	0.04mm		Signal	G2
Prepreg		0.21mm	PP-022	Dielectric	
CF-004	Bottom Layer	0.04mm		Signal	GBL
Nickel, Gold	Bottom Copper Plating	0.02mm		Surface Finish	
Surface Material	Bottom Solder	0.03mm	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.64mm					

Bill Of Materials

Line #	Designator	Quantity	Manufacturer Name	Manufacturer Part Number
	R52	1	KOA Speer	TLRH3APTTE10L0F
	R79, R86	2	Vishay	CRCW04020000Z0ED
	J7, J12	2	Molex	53261-0271
	R5, R8, R12, R15, R19, R22, R28, R29, R81, R84, R100, R101, R102	13	Vishay	CRCW04024K70FKED
	J5	1	Molex	53261-0471
	R54	1	Vishay	CRCW04025K49FKED
	J1, J2, J3, J4, J9	5	Molex	53261-0671
	R32, R33, R34, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R53, R55, R56, R58, R88, R90, R92, R94, R96, R107, R108	28	Vishay	CRCW040210K0FKED
	R62	1	Vishay	CRCW040217K4FKED
	R1, R2, R3, R4, R7, R9, R10, R11, R14, R16, R17, R18, R21, R23, R24, R25, R28, R30, R31, R35, R36, R37, R65, R68, R69, R71, R73, R74, R75, R76, R77, R78, R82, R85, R89, R91, R93, R103, R104, R105, R106	41	Vishay	CRCW040247K0FKED
	R70	1	Vishay	CRCW040249R9FKED
	J6	1	Keystone Electronics	54
	R61, R64, R87	3	Vishay	CRCW0402100KFKED
	R6, R13, R20, R27	4	YAGEO	RC2512JK-07120RL
	R66	1	Vishay	CRCW0402182KFKEDC
	R67	1	Vishay	CRCW0402182KFKEDC
	R59	1	Vishay	CRCW0402255KFKED
	R57	1	Vishay	CRCW0402316RFKED
	R60	1	Vishay	CRCW0402330KFKED
	R63, R72, R80, R83, R95, R97, R98, R99	8	Vishay	CRCW0402330RFKED
	RF1, RF2	2	Molex	73412-0110
	J10, J11	2	Molex	105450-0101
	D4	1	Wurth Elektronik	150066M153000
	X1	1	ABRACON	ABMM2-7.3728MHZ-E2-T
	U13	1	Microchip Technology / Atmel	ATMEGA2560V-8AU
	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9	9	Nexperia	BC847AAQZ
	U15	1	Texas Instruments	BQ24298RTWT
	C93, C94	2	Murata	GRM153R60J105ME95D
	C36, C46	2	Murata	GCJ188R71E105KA01D
	C41, C52, C54, C110	4	KEMET	C0402C475M9PACTU
	C31, C35, C38, C39	4	AVX	F380J106MMAAH3
	C106, C107	2	KEMET	CBR04C130F5GAC
	C30, C40	2	Murata	GRM188R60J226MEA0D
	C42, C43, C47, C48, C49, C50, C59	7	Murata	GRM32ER71E226KE15L
	C2, C3, C4, C6, C7, C8, C10, C11, C12, C14, C15, C16, C18, C19, C20, C56, C57, C61, C62, C83, C87, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C95, C96, C97, C98, C108, C109, C112, C113, C116, C117, C118, C119, C120, C121, C122, C124	59	Kemet	C0402C330J9RACAUTO
	C37, C53	2	AVX	04026C472MAT2A
	C60	1	Kemet	C1206C476M8PAC
	C65	1	Panasonic	10TPE68M
	C1, C5, C9, C13, C17, C21, C22, C23, C24, C25, C26, C27, C28, C29, C32, C44, C45, C51, C55, C58, C64, C68, C69, C81, C99, C100, C101, C102, C103, C104, C105, C111, C114, C115, C123	35	AVX	04026D104KAT4A
	C66	1	Murata	GRM31CR61A107ME8L
	C34	1	KEMET	T5271I07M006ATE070
	C33	1	AVX	04026C474KAT2A
	L2	1	Sumida	CDMC8D28NP-1R2MC
	U7	1	Maxim Integrated	DS28CM00R-A00+T
	FB1, FB2	2	Murata Electronics	BLM18EG101TZ1D
	L3, L4	2	Murata Electronics	LQG15HN1N0S02D
	U23	1	FTDI Chip	FT234XD-R
	U19	1	Analog Devices	LT1528CQ#PBF
	U18	1	Texas Instruments	LM1117DT-3.3NOPB
	U20	1	Teitit	LE910S1-EAG
	U14	1	Maxim Integrated	MAX17055ETB+T
	U9	1	NXP	MPL3115A2R1
	U22	1	OnSemi	NCP612SQ30T2G
	U24	1	Texas Instruments	TPS22917DBVR
	SW1	1	C&K Switches	PTS526SK08SMT2LFS
	L5	1	Murata Electronics	LQW15AN47NG00D
	U2, U3, U4, U5	4	Maxim Integrated	MAX485CSA+T
	U10, U11, U12	3	Sensirion	SDP810-500PA
	U8	1	Silicon Labs	SI1145-A10-GMR
	J8	1	Molex	47553-0001
	D1, D2, D3	3	ROHM Semiconductor	SML-P12MTT86R
	U21	1	Texas Instruments	SN74AXCH8T245PWR
	U1	1	Texas Instruments	SN74LV4052ADR
	L1	1	Bourns	SRP4020TA-2R2M
	U6	1	Texas Instruments	TCA9548APWR
	U17	1	Texas Instruments	TPL5111DDCR
	U16	1	Texas Instruments	TPS61088RHLR