

	SIGN NAME									
REVISION ISSUE DATE DESIGNED BY		P.OV P505 3MUL #3(
		HRKAD94								
	Description	Part	References	Value Qu	antity Per PCB	U-9.C	Heir Court	PCB Cost H	PCB Cost L	Demonstration of the contract
1	Resistor	R	BLEDR1	30	1	Officestr	Onit cost c	0	0	Remark PCD
3	Unpolarized capacitor Unpolarized capacitor	C C	C8 C16	5.6nF 47nF	1			0	0	
4	Unpolarized capacitor Unpolarized capacitor	C	C14 C15 C13	0.1uF 0.33uF	2			0	0	
6	Unpolarized capacitor Unpolarized capacitor	C	C17	1uF	1			0	0	
7	Unpolarized capacitor Unpolarized capacitor	c	C11 C24 C7 C9	3.3uF 4.7uF	2			0	0	
9	Unpolarized capacitor	c	C4 C10	10 uF	2			0	0	
10 11	Unpolarized capacitor Unpolarized capacitor	C	C12 C25 C26 C1	15u C	3			0	0	
	Aluminum Electrolytic Capacitors -		C.	-	-			V		
12	SMD 63VDC 100uF 20% 10x10.2mm AEC-Q200	EEE-FN1J101L	C5 C6	EE-FN1J10:	2	70.89	46.2	141.78	92.4	/10
13	Unpolarized capacitor	C	C2 C3	0.1 uF	2	70.03	40.2	0	0	710
14	Unpolarized capacitor Slide Switches SLIDE SWITCH 1P2T	с	C18 C19 C20 C21	TBD	4			0	0	
15	WITH POST USB-C (USB TYPE-C) USB 2.0	LSSM12-40-P-V-T_R	CAN_R1	/12-40-P-V	1	95.08	79.4	95.08	79.4	/50
	Receptacle Connector 24 Position									
16	Surface Mount, Through Hole	UJ20-C-V-SMT-TR-68	CNUSB1	-C-V-SMT-1	1	226.85	195.16	226.85	195.16	/10
17	Analog Comparators LP Quad Comparator 2.0mV 2.0 to 36V 2mV	AS339MTR-E1	COMP1	S339MTR-I	1	82.57	70.81	82.57	70.81	/10
18	40V 1A Schottky Barrier Rectifier	1N5819				40.03	28.44		28.44	
	Diode, DO-41 +/-6-V, Low IQ ideal diode with input		D2	1N5819	1			40.03		/10
19	polarity protection +/-6-V, Low IQ ideal diode with input	LM66100DCKR_1	D3	466100DCI	1	34.19	25.35	34.19	25.35	/10
20	polarity protection	LM66100DCKR	D4	A66100DCI	1	34.19	25.35	34.19	25.35	/10
21	Super Low IR, 60V, 40A, TO-263S (D2PAK), Schottky Barrier Diode	RB238NS-60TL	DS	8238NS-60	1	175.97	146.78	175.97	146.78	/10
	ESD Suppressors / TVS Diodes 1.5kW				•					
22	60V 5% Uni-Directional Bi-Direct ESD protect diode, PESD1CAN	SMCJ60A	D1	SMCI40A	1	40.87	36.61	40.87	36.61	/10
	NXP PESD1CAN,215, Bi-Directional TVS									
23	Diode Dual, 70V, 200W, 3-Pin TO- 236AB	PESD1CAN,215	ESD3	SD1CAN,2	1	33.36	21.93	33.36	21.93	/10
	4-Channel ESD Solution for High-Speed									
24	Differential Interface 60V Three-Phase Smart Gate Driver	TPD4S009DCKR	ESD1 ESD2	D4S009DC	2	38.35	29.02	76.7	58.04	/10
	With Buck Regulator and Three Current									
25	Shunt Amplifiers 3.3-V CAN Transceivers with CAN FD	DRV8323RSRGZR	IC2	V8323RSR(1	267.71	240.19	267.71	240.19	/10
26	(Flexible Data Rate)	TCAN334GD	IC1	[CAN334GI	1	281.06	239.36	281.06	239.36	/10
27	Generic screw terminal, single row,	TPS74801TDRCRQ1	IC3	74801TDRC	1	112.59	100.91	112.59	100.91	
28	01x02, script generated (kicad-library-	Screw_Terminal_01x02	13 15	OR POWER	2	27.52	12.68	55.04	25.36	/10 (All Cost Speculative)
	utils/schlib/autogen/connector/)									/10 (All Cost
29	Generic connector, single row, 01x01, script generated	Conn_01x01_Pin	19	MPWM		143.45	125.19	143.45	125.19	Speculative) Need Cheaper
23	Generic screw terminal, single row,	CONTROL	19	MEWW	-					/10 (All Cost
30	01x03, script generated (kicad-library- utils/schlib/autogen/connector/)	Screw Terminal 01x03	14	tput To Mc	1	50.87	36.28	50.87	36.28	Speculative)
	Generic screw terminal, single row.									/10 (All Cost
31	01x06, script generated (kicad-library-	Screw_Terminal_01x06	J1	_Terminal_	1	47.54	38.53	47.54	38.53	Speculative)
	utils/schlib/autogen/connector/) Generic connector, single row, 01x03,					50.87	36.28	152.61	108.84	/10 (All Cost
32	script generated Power inductor SMD shielded 33uH	Conn_01x03_Pin	J7 J8 J10	Sensor B	3					Speculative)
	Bourns SRR1260 Series Shielded Wire-									
	wound SMD Inductor with a Ferrite Core, 33 uH +/-20% Wire-Wound 3A					57.55	54.63	57.55	54.63	/100
33	Idc Q:27	SRR1260-330M	L1	R1260-330	1					
	Standard-LEDs - SMD SMD, AlinGaP, 1208, SIDE LOOK, GRN/RED,									
34	470NM/605NM, CLR, T/R Standard LEDs - SMD Red Blue 645nm	LTST-S326TGKRKT	LED1	T-S326TGK	1	40.87	25.35	40.87	25.35	/10
35	468nm 115mcd Water Clear	SM1204BC-R B	LED2	/1204BC-R	1	89.24	61.72	89.24	61.72	/10
	WURTH ELEKTRONIK - 155301BS73100 - LED. Blue, SMD.									
36	PLCC-2, 20 mA, 3.2 V, 470 nm	155301BS73100	LEDIND1	5301BS731	1	29.19	23.85	29.19	23.85	/10
	Trans MOSFET N-CH 200V 95A Automotive 3-Pin(2+Tab) D2PAK		Q1 Q2 Q3 Q4 Q5 Q7			233.52		1401.12	1175.94	/10
37 38	Resistor	SQM90142E_GE3 R	R18 RLEDG1	M90142E (2	253.52	195.99	0	0	/10
39 40	Resistor Resistor	R	R13 R8 RFb1a2	120R 270R	1			0	0	
41	Resistor	R	R11 R21 R22 R23 R24 R25	330R	6			0	0	
42	Resistor Resistor	R R	R6 R2 R26	820R 1k	2			0	0	
44	Resistor	R	R5	1k2	1			0	0	
45 46	Resistor Resistor	R R	R10 R3 R4	3k9 5.1k	2			0	0	
47	Resistor	R R1	R7 R15 R16 R19 R20 R28 R31 R34	5.1k R37 10k	10			0	0	
48 49	Resistor Resistor	R R	R9 RFb1a1 R29 R30 R32 R33 R35 R36	15k 47k	6			0	0	
50	Resistor Current Sense Resistors - SMD 5W 1	R	R12	100k TBD	1			0	0	
51	mOhm 1% 75ppm	TLR3APDTE1L00F75	R14 R17 R27	IAPDTE1L0	3	88.4	65.55	265.2	196.65	/10
52 53	Resistor Resistor	R R	RFB1b1 RFb1a4	8k2 20R	1			0	0	
54	Resistor	R	RFb1a3	6k2	1			0	0	
55 56	Resistor Tactile Switches Side Push Type	R TBFF21KQR	RLEDR1 RLEDR2	68 TREE21 VOE	2	66.72	55.54	0	0	/10
36	2.4 GHz WiFi (802.11 b/g/n) and	IBH-ZIKUK	S1 S2	TBFF21KQF		66.72	33.34	133.44	111.08	/10
	Bluetooth A* 5 (LE) module Built around ESP32S3 series of SoCs. Xtensa									
	Å® dualcore 32bit LX7 microprocessor									
	Flash up to 16 MB, PSRAM up to 8 MB 36 GPIOs, rich set of peripherals									
57	Onboard PCB antenna	ESP32-S3-WROOM-1	U1	2-S3-WRO	1	325.26	325.26	325.26	325.26	/10
58	PCB	PCB FR4 4 Layer	PCB1					0 PCBost (H)	0 PCBost (L)	