



Designator	Comment	Description	Quantity
	OMRON B3U-	OMRON B3U-	
B1	1000PM Short if LC05111	1000PM	1
	protection not		
В3	used/present at battery pack	Solder bridge	1
BUT1	SKRHABE010	5-way joystick	1
C1, C2, C20, C29	5p	0603	4
C3, C5, C8, C9,			
C10, C11, C13, C21, C22, C23,			
C24, C25, C26,			
C27, C28, C30, C31, C32, C33,			
C34, C35, C36,			
C37, C38, C39, C40, C41, C42,			
C43, C44, C45,			
C46, C47, C48, C51, C52, C53,			
C54, C55, C56	1u	0603	40
C4, C6, C7, C12, C14, C15, C16,			
C14, C15, C16, C17, C18, C19	1u 50V	0603	10
C49, C50	10n	0603	2
057	bigass ceramic or	400/	
C57	tantalum, 5V min 5x2 1.27mm	programming	1
CON1	header, SMD	connector for uC	1
CON2	E-ink PFC	OMRON XF2W24151AR100	1
COINZ	2pin picoblade	ALZVVZ4131AK100	
CON_BAT	connector		1
CON BUZ	1x2 Header, 1,25mm		1
CON_BUZ CON_HEAT,	1.2311111	90deg angle,	
CON_SOL	1x2 Header, 1.25	[NoValue]	2
D1, D2, D3, D9	MBR0530	SOD-123 shottky diode	4
D4, D7	2V7 zener	micromelf	2
		SC70 3x zener	
D6, D8	BAT54TW	diode	2
L1	FASTRON 1210F- 680K-01	1210F-680K-01	1
	600R 0805 ferrite		
L2, L3	bead	0805	2
M_BT	RN4871	bluetooth module	1
		u-blox CAM GNSS	
M_GPS	CAM-M8	antenna module	1
Q1, Q4	NDS355	N-FET transistor	2
	DAMPOOOF	D FET L	
Q2, Q3	DMP2305	P-FET transistor	2
	DMP2305 2k2	P-FET transistor 0805	2 7
O2, O3 R1, R2, R4, R5, R9,			
Q2, Q3 R1, R2, R4, R5, R9, R12, R15	2k2	0805	7
O2, O3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8	2k2 1Meg 12k 3R	0805 0805	7 1 2 1
O2, O3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7	2k2 1Meg 12k 3R 12k 1%	0805 0805 0805 0805 0805	7 1 2 1
O2, O3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11	2k2 1Meg 12k 3R 12k 1% 680R	0805 0805 0805 0805 0805 0805	7 1 2 1 1
O2, O3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11	2k2 1Meg 12k 3R 12k 1% 680R 0R039	0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1
O2, O3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1
O2, O3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k	0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1
O2, O3 R1, R2, R4, R5, R9, R1,	2k2 1Meg 12k 3R 12k 1% 680R 00R039 1k 10R microSD slot ATTEND 112I-TDAR-	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
O2, O3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1
O2, O3 R1, R2, R4, R5, R9, R1,	2k2 1Meg 12k 3R 12k 1% 680R 00R039 1k 10R microSD slot ATTEND 112I-TDAR-	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3, R1, R2, R4, R5, R9, R12, R15, R9, R12, R15, R3, R6, R8, R7, R10, R11, R13, R14, R18, SD1	2k2 11Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ATTEND 112I-TDAR-R	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R14 R18	2k2 1Meg 12k 3R 12k 1% 680R 0R039 11k 10R microSD slot ATTEND 112I-TDAR-R SAM D21G	0805 0805 0805 0805 0805 0805 0805 0805	77 1 2 2 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3, R1, R2, R4, R5, R9, R12, R15, R3, R6, R8, R7, R10, R111, R13, R14, R14, R18, R19, R19, R111, R111, R112, R114, R115, R114, R115, R114, R115, R	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ATEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4	2k2 1Meg 12k 3R 12k 1% 660R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3, R1, R2, R4, R5, R9, R12, R15, R3, R6, R8, R7, R10, R111, R13, R14, R14, R18, R19, R19, R111, R111, R112, R114, R115, R114, R115, R114, R115, R	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ATTEND 112I-TDAR- R SAM D21G USB2244 USB126-4 NC7514 23K256	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4	2k2 1Meg 12k 3R 12k 1% 660R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3, R1, R2, R4, R5, R9, R12, R15, R3, R6, R8, R7, R10, R111, R13, R14, R14, R18, R19, R19, R19, R19, R19, R19, R19, R19	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 228/256 228/256 228/256 25A0040A EEPROM	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R14 R19 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17	2k2 1Meg 12k 3R 12k 196 660R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 23K256 EFPROM NX3008CBKS	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 4 4
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8	2k2 1Meg 12k 3R 12k 196 660R 0R0.39 1k 10R microSD slot ATTEND 112I-TDAR-R SAM D21G USB 2244 USBLC6-4 NC7S14 23K256 EPROM NX3008CBKS BMX160	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R14 R19 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17	2k2 1Meg 12k 3R 12k 196 660R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 23K256 EFPROM NX3008CBKS	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 4 4
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8	2k2 1Meg 12k 3R 12k 196 660R 0R0.39 1k 10R microSD slot ATTEND 112I-TDAR-R SAM D21G USB 2244 USBLC6-4 NC7S14 23K256 EPROM NX3008CBKS BMX160	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8	2k2 1Meg 12k 3R 12k 196 660R 0R0.39 1k 10R microSD slot ATTEND 112I-TDAR-R SAM D21G USB 2244 USBLC6-4 NC7S14 23K256 EPROM NX3008CBKS BMX160	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
O2, O3 R1, R2, R4, R5, R9, R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8 U9, U11	2k2 11Meg 12k 3R 12k 196 660R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 23K256 25AA040A EEPROM NX3008CBKS BMX160 NCP718 3V3	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
O2, O3 R1, R2, R4, R5, R9, R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8	2k2 11Meg 12k 3R 12k 1% 6600R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 22K256 22SAA040A EPPKOM NX3008CBKS BMX160 NCP718 3V3	0805 0805 0805 0805 0805 0805 0805 0805	7 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U10 U9, U11 U12 U13 U9, U11	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ArTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7514 23K256 25AA00A EEPROM NX3008CBKS BMX160 NCP718 3V3 MCP73831 LC05111	0805 0805 0805 0805 0805 0805 0805 0805	7 7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3, R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R14 R14 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8 U9, U11 U12 U13 U11 U12 U13 U14 U15 U16 U17, U10, U15, U17 U8 U9, U11	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 22K256 225A040A EEPROM NX3008CBKS BMX160 NCP718 3V3 MCP73831 LC05111 MAX17055	08005 08005 08005 08005 08005 08005 08005 08005 08005 08005 08005 ATTEND 1121-TDAR-R R Atmel ARM M0+ uc SD card reader SSD protection SOT23-5 single Inverter SPI SRAM SPI eapprom SC70 N/P dual mos IMU mems unit SOT23 3.3 V LDO regulator SOT23 3.3 V LDO regulator SOT23 Inear battery charging controller Battery protection circuit Battery protection circuit	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U10 U9, U11 U12 U13 U9, U11	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ArTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7514 23K256 25AA00A EEPROM NX3008CBKS BMX160 NCP718 3V3 MCP73831 LC05111	0805 0805 0805 0805 0805 0805 0805 0805	7 7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3, R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R14 R14 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8 U9, U11 U12 U13 U11 U12 U13 U14 U15 U16 U17, U10, U15, U17 U8 U9, U11	2k2 1Meg 12k 3R 12k 196 660R 0R0.39 1k 10R microSD slot ATTEND 112I-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 23K256 BMX160 NCP718 3V3 MCP73831 LC05111 MAX17055 MCP6001 si7021	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3, R1, R2, R4, R5, R9, R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8 U9, U11 U12 U13 U14 U15 U10 U11 U11 U11 U11 U11 U11 U11 U11 U11	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ArtiSND 1sl2t-IDAR-R R SAM D21G USB2244 USBLC6-4 NC7514 25X/56 25AA040A EFPKOM NX300BCBKS BMX160 NCP718 3V3 MCP73831 LC05111 MAX17055 MCP6001	0805 0805 0805 0805 0805 0805 0805 0805	7 7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8 U9, U11 U12 U13 U14 U16 U18 U19 U18 U19 U19 U18 U19	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ATTEND 112l-TDAR-R SAM D21G USB2244 USBLC6-4 NC7514 223K256 225AQ04QA EFPROM NX3008CBKS BMX160 NCP718 3V3 MCP73831 LC05111 MAX17055 MCP6001 si7021 LPS33	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3, R1, R2, R4, R5, R9, R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8 U9, U11 U12 U13 U14 U15 U10 U11 U11 U11 U11 U11 U11 U11 U11 U11	2k2 1Meg 12k 3R 12k 196 660R 0R0.39 1k 10R microSD slot ATTEND 112I-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 23K256 BMX160 NCP718 3V3 MCP73831 LC05111 MAX17055 MCP6001 si7021	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8 U9, U11 U12 U13 U14 U16 U18 U19 U18 U19 U19 U18 U19	2k2 1Meg 12k 3R 12k 1% 6600R 0R0.39 1k 10R microSD slot ATTEND 112I-TDAR-R SAM D21G USB2244 USBLC6-4 NC7S14 23K256 BMX160 NCP718 3V3 MCP73831 LC05111 MAX17055 MCP6001 si7021 LPS33 SMD micro USB ILSI 26-HIX5F12.5-32-768KHz	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q2, Q3 R1, R2, R4, R5, R9, R12, R15 R3 R6, R8 R7 R10 R11 R13 R14 R18 SD1 U1 U2 U3 U4 U5 U6 U7, U10, U15, U17 U8 U9, U11 U12 U13 U14 U16 U18 U19 USB_PROG, USB_SD	2k2 1Meg 12k 3R 12k 1% 680R 0R039 1k 10R microSD slot ATEND 112l-TDAR-R R SAM D21G USB2244 USBLC6-4 NC7514 252K256 25AA040A EEPROM NX3008CBKS BMX160 NCP718 3V3 MCP73831 LC05111 MAX17055 MCP6001 si7021 LPS33 MCP601 si7021 LPS33	0805 0805 0805 0805 0805 0805 0805 0805	7 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1