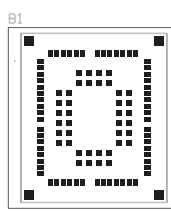
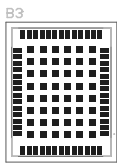


[illegible][illegible][illegible]



Quantity	Designator	Comment	Description	Footprint	Manufacturer	Manufacturer Part Number
	B11, B12, B13		BATT HOLDER 18600 1 CELL SMD	FP-1043P-MFG	KeyStone Electronics	1043P
	C1, C4, C5, C8, C13, C18, C19, C17, C18, C19, C20, C22, C23, C24, C38, C36, C37, C40, C41, C42, C44, C45, C47, C48, C49, C50, C52, C56, C58, C59, C60		CAP CER 1000F 16V 0603	C-0603		
	C2, C7, C9, C10, C11, C15, C21, C46		CAP CER 4.7UF 16V 0603	C-0603		
	C3, C8, C12, C14, C21, C25		CAP TANT 100UF 20V 10V 2W17_SMD	C-TANTAL-A		
	C26, C27, C28, C29		CAP CER 100F 16V 0603	C-0603		
	C31, C32, C33, C34, C11, C38, C39, C43, C43, C54, C55, C57		CAP CER 220F 16V 0603	C-0603		
	D01	Power	LED BLUE CLEAR CHIP SMD	FP-LTST-C191T8MT- MFG	Wishay Lite-On	LTST-C191T8MT
	D02, D3, D10	BAT549FLM	DIODE SCHOTTKY 40V 300MA SOD523	FP-SOD-523-MFG	STMicroelectronic	BAT549FLM
	D04	STAT	LED BLUE CLEAR CHIP SMD	FP-LTST-C191T8MT- MFG	Wishay Lite-On	LTST-C191T8MT
	D05	S2WUP210SL7NG	TVS DIODE 24V 48V SOD123	FP-318-08-MFG	ON Semiconductor	S2WUP210SL7NG
	D06	E2A-EG1N50AC	SMD SUPPRESSOR 0201	FP-E2AEG1-MFG	Panasonic	E2A-EG1N50AC
	D07	TIME_PULSE	LED BLUE CLEAR CHIP SMD	FP-LTST-C191T8MT- MFG	Wishay Lite-On	LTST-C191T8MT
	D08	GEOFENCE_STAT	LED BLUE CLEAR CHIP SMD	FP-LTST-C191T8MT- MFG	Wishay Lite-On	LTST-C191T8MT
	D09	GNSS_RTK_STAT	LED BLUE CLEAR CHIP SMD	FP-LTST-C191T8MT- MFG	Wishay Lite-On	LTST-C191T8MT
	D011	PE3070V3LSUF-115	TVS DIODE 3.3VMM 120V 61350P	SOT1W9P280X45-4N		
	L1, L1	2.2uH	SMD Power Inductors 2.2uH ±0.1% 1.7A 2600	FP-NR6028-MFG	Taiyo Yuden	NR6028J262N
	L12, L4, L5	10 uH	SMD Inductors 100uH ±20% 0.08A 0.4603 0603	FP-LBMF140B-D,-B,- E,-J-IPC-A	Taiyo Yuden	LBMF140BT100M
	L13	2.2nH	SMD Power Inductors 2.2uH ±30% 3.1A 2600	FP-NR6028-MFG	Taiyo Yuden	NR6028J262N
	P01	0601	PLS-3, 3mm unpopulated 2.54mm	PLS-3		
	P02	0801	PLS-2, 3mm unpopulated 2.54mm	PLS-2		
	P03	SMD	Main Header: Pitch 2.54mm, 2 x 1 Position, Height 8.38 mm, Tail Length 5.08 mm, 90 to 120 deg. RoHS, Bulk	DMTC-TSM-103-08-L	Samtec	TSM-103-08-L-D
	P04	Interface select	PLS-12, 3mm unpopulated 2.54mm	PLS-12		
	P05	Type-C	CONN RCP USB 2.0 TYPE-C 20P SMD 0.8A	FP-217179-0001-MFG	Molex	217179-0001
	P06	ANAL USB Connector	PLS-5, 3mm unpopulated 2.54mm	PLS-5		
	P07	RE405	PLS-2, 3mm unpopulated 2.54mm	PLS-2		
	P08	ANT	SMD Connector Pitch 5.08mm, 1 Position, Height 9.5mm, Tail Length 4.7mm, 45 to 165 deg., RoHS, Bulk	TECO-5-1814832-1_V	TE Connectivity	5-1814832-1
	P09	SIM-card	CONN SMART CARD PLUSH-RELL	W930430D0611	Wurth Electronics	W930430D0611
	P10	INT_SEL	PLS-2, 3mm unpopulated 2.54mm	PLS-2		
	D01, D2	2N7002		FP-Micro18PC-B	Infineon	RLM240218W8
	R1, R11, R15, R16	1k	RES 1K OHM 1% 1/10W 0603	R-0603		
	R12	260R	RES 260 OHM 1% 1/10W 0603	R-0603		
	R3, R6, R19, R21, R26, R29, R30, R32	10k	RES 10K OHM 1% 1/10W 0603	R-0603		
	R4, R8, R10, R11, R12, R14, R31	100R	RES 100 OHM 1% 1/10W 0603	R-0603		
	R15	3k23	RES 3.23K OHM 1% 1/10W 0603	R-0603		
	R17	2k1	RES 2K 1K OHM 1% 1/10W 0603	R-0603		
	R19, R23, R26	100K	RES 100K OHM 1% 1/10W 0603	R-0603		
	R17, R18	47K	RES 47K OHM 1% 1/10W 0603	R-0603		
	R20, R25, R27	300R	RES 300 OHM 1% 1/10W 0603	R-0603		
	R22	17R	RES 17 OHM 1% 1/10W 0603	R-0603		
	R24	6k7	RES 6.7K OHM 1% 1/10W 0603	R-0603		
	SW1, SW2, SW3	RESET	2805M Push Button Switch, 50 mA, 35 to 85 deg., 2 Pins SMD, RoHS, Tape and Reel	TECO-F35MDMTR_V	TE Connectivity	F35MDMTR
	T1, T2, T3, T4, T5, T6	Test_point	Test_point (DIP9)	Test_point		
	U1	AP2112K-3.3TRG1	IC REG LINEAR 3.3V 600MA SOT23	FP-SOT23-IPC_A	Monres	AP2112K-3.3TRG1
	U2	IC2189SARTWR	IC BATT CHG LI-ION 155LI 2W02VH	FP-R1W0024H-MFG		
	U3	TS1US02210DCR	High-Speed USB 2.0 (480Mbps) 1:2 Multiplexer / Demultiplexer Switch with Single Enable, 6 ohm RON, 2:1 to 1:30, 40 to 85 deg., 10-Pin SOA (PQ), Green (RoHS & no-Sr-Pb)	DRCD0101_V	Texas Instruments	
	U4	U21N	Sensor Module Inductorometer	U21N	ICW	
	U5	SH65HVD30E2E2R	IC TRANSCEIVER HALF 1/1 BSQC	FP-D00058A-MFG	Texas Instruments	SH65HVD30E2E2R
	U6	LCPT596LAC-NO5- 2005A	Linear IC	FP-LCPT596LAC- NO5-2005A		
	U7	W55C328V5G3	IC FLASH 32MBIT 8K 0.1UM 1PQ5C	SOIC127FP060216-8N		
	U8	DS1600DPU133R	IC REG LINEAR 3.3V 4.7uH	DS16100DPU133R		
	U9	USB.C6-25C6	USB Charge 6A 80/70uA Ipp Typ Onchip Surface Mount SOT- 23L6	SOT1W9P280X45-4N		
	U10	LED-FWP-G2B	RED-FWP-RF Receiver RedFox Galileo GLONASS, GNSS, GPS 1.2276GHz - 1.5754GHz - 16dBm 921.48kps 54-LGA 22x17.7	ZEDFWP02B		
	U11	SEA164508BT-7260B	BPF FILTER BAND PASS 2.45GHz 0603	PL_DEA164508BT- 728801		
	U12	STM32W058RCV6	ULTRA-LOW-POWER DUAL CORE ARM CO- PROCESSOR	FP-W058RCV600K100		
	U11	32 Mhz	Resonance Wrist Thru Mini-Crystal, 16 MHz, 20 to 70 deg., 2 Pin TSD, RoHS, Bulk	FOX-FOKSL160-20	Fox Electronics	FOXSL160-20
	U12	32 Mhz	CRYSTAL 12.0000MHz BMY SMD	SMD-4 (4.5x3.2)		