

Designator	Value	Quantity	Manufacturer Part Number	Description
A1		1	P822601	Flat Bar RF Antenna (cellular)
C301, C401, C402, C403, C404, C405, C601, C604, C606, C806, C810, C901, C904, C905, C907, C1001, C1202, C1205, C1209, C1215	100nF	20	CL10B104KB8NNNL	Capacitor
C501	12pF	1	0603N120J500CT	Capacitor
C502	10nF	1	CL10B103KB8NNNC	Capacitor
C602, C603, C902, C1216, C1217	1uF	5	CL10A105KO8NNNC	Capacitor
C605	10uF	1	CL10X106MP8NRNC	Capacitor
C607	22uF	1	CL10A226KQ8NRNE	Capacitor
C608	1.8pF	1	CL10C1R8BB8NNNC	Capacitor
C609		1	PCH1E101MCL4GS	Aluminium Organic Polymer Capacitors 100UF 25V ESR=27
C807	1uF/50V	1	CL10A105KB8NNNC	Capacitor
C903, C906	100pF	2	CL10C101JB8NNNC	Capacitor
C1201, C1208	15pF	2	CL10C150JB81PNC	Capacitor
C1203, C1210	47uF	2	GRM188D70E476ME01D	Capacitor
C1206, C1207	4.7uF	2	CL10A475KQ8NNNC	Capacitor
C1211	3.5pF	1	CL10C3R3CB81PNC	Capacitor
C1212, C1213, C1214	N.C.	3		Capacitor
D601		1	1SS390SMFHT2R	RF Diode PIN - Single 35V 100 mA EMD2
D1201		1	CM1402-03CP	FILTER RC(PI) ESD SMD
FB501	500 mA, 600 Ohms	1	BLM18EG601SZ1D	Ferrite bead
FB801, FB802	60 OHM	2	742792602	Ferrite bead, [NoValue]
FB1201	120ohm 0.7A	1	BLM18AG121SH1D	Ferrite bead - 120ohm 0.7A
IC201		1	WLR089U0-I/RM	LONG RANGE LORA MODULE (863-928
IC202, IC701, IC902		3	SN74AVC4T774PWR	Logic Level Converter (LLC)
IC203, IC702, IC903		3	NX2301P,215	P-Channel 20V 2A (Ta) 400mW (Ta), 2.8W (Tc) Surface Mount TO-236AB
IC301		1	MAX3486ESA+	1/1 Transceiver Half RS422, RS485 8-SOIC
IC302		1	MAX3471EUA+	1/1 Transceiver Half RS422, RS485 8-uMAX-EP 8-uSOP-EP
IC401		1	MAX3221CUE+	1/1 Transceiver Full RS232 16-TSSOP
IC601		1	TPS2113PWR	OR Controller Source Selector Switch N-Channel 2:1 8-TSSOP
IC901		1	NEO-M8N-0-10	NEO-M9N-00B should be used if available
IC904		1	SKY65943-11	GPS LNA MODULE
IC1001		1	CY15B108QN-20LPXC	IC FRAM 8MBIT SPI 20MHZ 8GQFN
IC1201		1	NRF9160-SICA-R7	IC RF TxRx + MCU Cellular GPS 700MHz ~ 2.2GHz 161-TFLGA Module
IC1202		1	PCAL6408APWJ	I/O Expander 8 I2C, SMBus 400 kHz 16-TSSOP
J301, J302		2	61300211121	CONN HEADER VERT 2POS 2.54MM
J501		1	70543-0001	BAT CONN HEADER VERT 2POS 2.54MM
J502		1	PH1-04-UA	CONN HEADER VERT 4POS 2.54MM
J503		1	61300611121	CONN HEADER VERT 6POS 2.54MM
J504		1	10119313-302TLF	USB - mini B USB 2.0 Receptacle Connector 5 Position Through Hole
J505, J515		2	61300311121	CONN HEADER VERT 3POS 2.54MM
J506		1	104031-0811	CONN MICRO SD CARD PUSH-PULL R/A
J507, J514		2	CONUFL001-SMD-T	CONN UMC JACK STR SMD
J508, J512		2	SHF-105-01-L-D-SM-LC-K-TR	CONN HEADER SMD 10POS 1.27MM
J509, J510		2	BM05B-ZESS-TBT (LF)(SN)	RS232/RS485 CONN HEADER SMD 5POS 1.5MM
J513		1	SF72S006VBAR2500	NANO SIM CARD PUSH-PUSH
J516		1	TSW-103-08-S-D	Auxillary 2x3 conn
J802		1	52746-1071	LCD connector CONN FFC BOTTOM 10POS 0.50MM R/A
L601		1	LPS3015-222MRB	Inductor
L901	27nH	1	LQG18HH27NJ00D	Inductor
L902	9n1	1	LQW18AN9N1D00D	Inductor
L1201	22nH	1	LQW18AN22NJ00D	Inductor
L1202	1.5nH	1	LQG18HN1N5S00D	Inductor
LED501		1	APT2012LSECK/J3-PRV	LED RED CLEAR 2SMD
LED502		1	APT2012LSYCK/J3-PRV	LED YELLOW CLEAR 2SMD
LED503		1	APT2012LZGCK	LED GREEN CLEAR 2SMD
LED504, LED505		2	APT2012LVBC/D	LED BLUE CLEAR 2SMD
PB1201, PB1202, S601		3	TLS A 070J LFS	SWITCH TACTILE SPST-NO 0.05A 12V - used 1-3 (2-4 not in use)
Q901		1	SI1040X-T1-GE3	IC PWR SWITCH P-CHAN 1:1 SC89-6
R201, R202, R203, R603, R701, R702, R703, R801, R804, R901, R902, R903, R906, R1102, R1103, R1209, R1210, R1211, R1212, R1213	100k	20	RC0603FR-07100KL	Resistor
R301	120R	1	RT0603DRD07120RL	Resistor
R302, R303	680R	2	RC0603JR-07680RL	Resistor
R501, R502	15R	2	RC0603JR-0715RL	Resistor
R503, R508, R509, R511, R904, R907, R908, R1204, R1205, R1206, R1216, R1217	0R	12	YJP1608-R001	Resistor
R504, R505	820R	2	RC0603FR-07820RL	Resistor
R506, R507, R510	330R	3	RC0603FR-07330RL	Resistor
R601, R609	240k	2	RC0603FR-07240KL	Resistor
R602, R606, R909	1M	3	RC0603FR-131ML	Resistor
R604	390R	1	RC0603JR-07390RL	Resistor
R605, R1214, R1215	1k	3	RC0603FR-071KL	Resistor
R607	100R	1	RC0603FR-07100RL	Resistor
R608	1M2	1	RC0603FR-071M2L	Resistor
R610	3k	1	RC0603FR-073KL	Resistor
R905	10R	1	RC0603FR-1310RL	Resistor
R1001, R1002	33R	2	RC0603FR-0733RL	Resistor
R1003	50R	1	RC0603FR-0749R9L	Resistor
R1101, R1201	10k	2	RC0603FR-0710KL	Resistor
R1202, R1203	4.7k	2	RC0603FR-074K7L	Resistor
S201		1	97C08ST	8-Pin address switch
U501		1	USBLC6-2SC6	17V Clamp 5A (8/20µs) Ipp Tvs Diode Surface Mount SOT-23-6
U601		1	TPS63000DRCR	Buck-Boost Switching Regulator IC Positive Adjustable 1.2V 1 Output 1.6A (Switch) 10-VFDFN Exposed Pad
Y1101		1	RV-3032-C7-TA-QC	Real Time Clock Serial I2C 16Bytes 8-Pin SON T/R