

Item #	Designator	Description	Name	Quantity	Manufacturer 1	Manufacturer Part Number 1	Footprint	LibRef	Note
1	A1	CUBE mXTEND Antenna Booster (GSM, UMTS, LTE)	FR01-S4-250	1	Fractus	FR01-S4-250	FRACTUS_CUBE_mXTEND	ANT:CUBE_mXTEND	
2	C1	Capacitor, NP0, ±10%, 10V	3pF	1	Murata	GJM0335C1E3R0WB01D	CAPC0603X03L_C		
3	C2, C9, C14, C15, C18	Capacitor, X5R, ±10%, 10V	100nF	5			CAPC0603X03L_C		
4	C3, C4, C6	Capacitor, X5R, ±10%, 6.3V	4.7µF	3			CAPC1608X06L		
5	C5	Capacitor, X5R, ±20%, 6.3V	47µF	1	Murata	GRM21BR60J476ME15L	CAPC2012X11L		
6	C7, C8	Capacitor, X7R, ±10%	10µF	2			CAPC1608X06L		
7	C10	Capacitor, X5R, ±10%, 10V	10nF	1			CAPC0603X03L_C		
8	C11	Capacitor, X5R, ±10%, 16V	2.2µF	1			CAPC1005X04L		
9	C12	Capacitor, NP0	10pF	1			CAPC0603X03L_C		
10	C13	Capacitor, X5R, ±20%	10µF	1			CAPC1005X04L		
11	C16	Capacitor, X5R, ±10%, 10V	1µF	1			CAPC0603X03L_C		
12	C17	Capacitor, X5R, ±10%, 16V	4.7µF	1	Murata	GRM155R60J475ME47D	CAPC1005X04L		
13	C19, C20	Capacitor, NP0	47pF	2	Murata	GRM0335C1E470JA01D	CAPC0603X03L_C		
14	D1	EMI Network Filter Arrays SIM CARD EMI FILTER WITH ESD PROTECTION	CM1402	1	ON Semiconductor	CM1402-03CP	CM1402		
15	FB1	Ferrite Bead, 120 Ohm @ 100MHz, 500mA, 250 mOhm Max	120R/550mA	1	Murata	BLM15AG121SN1D	INDC1005X04L		
16	J1	MicroUSB-B-SMT	USB Micro B	1	Amphenol ICC / FCI	10118193-0001LF	USB-Micro-B-RA-SMD-PIP		
17	J2	1.0mm pitch connector side entry SMD	HDR-3, 1mm	1	JST	SM03B-SRSS-TB(LF)(SN)	SM03B-SRSS-TB		
18	J5	Nano SIM Card Connector, Push-Pull Type, 6 Pin, SMT, Profile 1.35mm	SIM8055-6-1-14-00-A_revA1	1			GCT_SIM8055-6-1-14-00-A_revA1	SIM8055-6-1-14-00-A_revA1	
19	L1	Switching regulator chip inductor, 2-Leads, Body 2.5x2.0x1.1 mm	10µH	1	Wurth Electronics	74479787247	IND1008		
20	L2	Inductor, 350mA, ±3%	2nH	1	Murata	LQW03AW2N0C00D	INDC0603X03L_C		
21	L3	Inductor, 350mA, ±3%	8.7nH	1	Murata	LQW03AW2N8C00D	INDC0603X03L_C		
22	L4	Inductor, 350mA, ±3%	2.8nH	1	Murata	LQW03AW2N8C00D	INDC0603X03L_C		
23	L5	Inductor, 350mA, ±3%	11nH	1	Murata	LQW03AW12NJ00D	INDC0603X03L_C		
24	L6	Inductor, 600mA, ±0.1nH, 120mΩ, Q=25	5.1nH	1	Murata	LQW15AN5N1B00D	INDC1005X04L_WW		
25	LD1, LD3	LED, Green, 0603, 570nm, Vf=1.7V, 2.24..5.6mcd, - 40 to +100°C	L0603G	2	Osram Opto	LGL29K-G2J1-24-Z	LED_0603_G	D:LED	
26	LD2	RGB LED 1.60 mm x 1.60 mm SMD	LED RGB	1			LED_RGB_0606		
27	Q1, Q2	MOSFET 2N-CH 30V 0.2A SOT666	NX3020NAKV	2	Nexperia	NX3020NAKV,115	NX3020NAKV		
28	R1, R2, R3, R12, R13		0R	5			RESC0603X03L_C	RES:0201	
29	R4		1.5M	1			RESC0603X03L_C	RES:0201	
30	R5		1.2M	1	Panasonic	ERJ-1GEJ125C	RESC0603X03L_C	RES:0201	
31	R6, R7, R11		1k	3			RESC0603X03L_C	RES:0201	
32	R8		170R	1			RESC0603X03L_C	RES:0201	
33	R9, R10		143R	2	Yageo	RC0201FR-07143RL	RESC0603X03L_C	RES:0201	
34	R14, R15		23R	2	Panasonic	ERJ-1GNF23R7C	RESC0603X03L_C	RES:0201	
35	SW1	SMD slide Switch (ON-ON)	Switch	1	Nidec Copal	CL-SB-22A-11T	Switch-Slide-RA-J-Lead-DPDT-8.5x3.5mm		
36	SW2	SWITCH TACTILE SPST-NO 0.05A 16V	PTS810	1	ITT C&K	PTS810SJM250SMTRLFS	BTN_PTS810	BUTTON	
37	U1	Low power System-in-Package with integrated LTE-M/NB-IoT modem and GPS	nRF9160-SICA	1	Nordic Semiconductor	NRF9160-SICA-R	LGA50P1600X1050X104-161N		
38	U2	Wideband RF SPDT Switch	BGS12SN6	1	Infineon	BGS12SN6E6327	PG-TSNP-6-2		
39	U3	IC USB POWER MANAGER 20UTQFN	LTC3554	1	Analog Devices / Linear Technology	LTC3554EUD#PBF	QFN40P300X300X80_HS-21N	LTC3554EUD-3#PBF	
40	U4	USB Bridge, USB to UART USB 2.0 UART Interface 16-QFN (4x4)	FT230XQ	1	FTDI	FT230XQ-R	QFN65P400X400X80_HS-17N		
41	U5	Micropower, 3-Axis, ±2 g/±4 g/±8 g Digital Output MEMS Accelerometer	ADXL362	1	Analog Devices	ADXL362BCCZ-RL7	LGA50P322X300X114-16N		
42	U6	GNSS Low-Noise Amplifier Front-End Module with Integrated Pre-Filter and Post-Filter	SKY65943-11	1	Skyworks Solutions	SKY65943-11	SKY6594311		