

#	PART NUMBERS	QTYS	REF DES
1	TRI-16828	1	ANT1
2	TRI-16944	15	C1, C4, C5, C9, C12, C18, C23, C43, C46, C47, C56, C61, C75, C76, C77
3	TRI-16139	1	C2
4	TRI-16940	35	C3, C14, C16, C17, C21, C22, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C48, C49, C50, C51, C52, C53, C54, C63, C64, C65, C68, C69, C70
5	TRI-17259	4	C6, C45, C66, C81
6	TRI-17265	6	C7, C13, C19, C24, C25, C26
7	TRI-16567	1	C8
8	TRI-16941	4	C10, C67, C74, C78
9	TRI-15067	3	C11, C15, C80
10	TRI-16980	2	C20, C85
11	TRI-17053	1	C44
12	TRI-17456	1	C55
13	TRI-16951	1	C57
14	TRI-17093	3	C58, C59, C60
15	TRI-16929	1	C62
16	TRI-16950	3	C71, C73, C79
17	TRI-15894	1	C72
18	TRI-17687	2	C82, C83
19	TRI-17459	1	D1
20	TRI-17557	1	D2
21	TRI-17548	1	D3
22	TRI-17357	2	D4, D6
23	TRI-17144	4	L1, L2, L6, L8
24	TRI-16967	1	L3
25	TRI-14724	1	L4
26	TRI-17691	1	L5
27		1	L7
28	TRI-16455	1	L9
29		1	L10
30	TRI-17685	1	L11

31	TRI-16923	12	R1, R12, R17, R22, R28, R32, R33, R39, R40, R51, R57, R58
32	TRI-16909	5	R2, R3, R6, R11, R19
33	TRI-17452	1	R4
34	TRI-17451	1	R5
35	TRI-16911	5	R7, R16, R24, R25, R31
36	TRI-15917	2	R8, R9
37	TRI-17690	1	R10
38	TRI-16912	14	R13, R14, R15, R35, R36, R37, R38, R42, R43, R52, R53, R54, R55, R56
39	TRI-17667	2	R18, R26
40	TRI-17054	2	R20, R21
41	TRI-16909	3	R23, R29, R30
42	TRI-17689	1	R27
43	TRI-17017	1	R34
44	TRI-17638	1	S1
45	TRI-16969	2	S2, S3
46	TRI-17485	1	U1
47	TRI-17411	1	U2
48	TRI-17682	1	U3
49	TRI-17449	1	U4
50	TRI-17412	1	U5
51	TRI-17413	1	U6
52	TRI-17684	1	U7
53	TRI-17608	1	U8
54	TRI-17680	1	U9
55	TRI-17458	1	U10
56	TRI-17415	1	U11
57	TRI-17438	1	U12
58	TRI-17423	1	U13
59	TRI-17681	1	U14
60	TRI-17480	1	Y1
61	TRI-17626	1	Y2
62	TRI-10101-04	1	

TRI	
BOM, MAIN BRD	
DESCRIPTION	MOUNT
ANTENNA, CERAMIC CHIP, 2.4GHZ, 3216	-
CAP 1µF 6.3V Ceramic Capacitor X5R 0201	-
CAP CER 0.047UF 50V 10% X7R 0402	-
CAP 0.10µF 10V Ceramic Capacitor X5R 0201	-
CAP CER 10UF 25V X5R 0603 20%	-
CAP CER 10UF 10V X5R 0402	-
CAP CER 0.22UF 16V X7R 0402	-
CAP 10000pF 16V Ceramic Capacitor X5R 0201	-
CAP CER 1UF 10% 10V X5R 0402	-
CAP 22µF 10V Ceramic Capacitor X5R 0603 (1608 Metric) 0.063	-
CAP CER 1nF 50V X7R 0201	-
CAP CER 4.7UF 6.3V X5R 0201 20%	-
CAP 1uF 16V Ceramic Capacitor X5R 0402	-
CAP CER 10PF NPO 1% 0201	-
CAP 1.2PF 25V CERAMIC CAPACITOR COG, NP0 0201	DNI
CAP 4.7UF 10V Ceramic Capacitor X5R 0402	-
CAP CER 0.47UF 10V 10% X5R 0402	-
CAP 4PF +/-0.25PF 25V COG 0201	-
DIO DUAL SERIES SCHOTTKY 200mA 40V SOT523	-
DIO SCHOTTKY 30V 200MA DFN1006 1MMx0.6MM	-
LED RGB SPI 256 COLOUR 5V 6 PIN 2MMx2MM	-
DIODE,TVS,UNIDIRECTIONAL,8V33Vbr,13V5Vcl,0603	-
FERRITE BEAD 220 OHM 0402 1LN	-
FIXED IND 2.2UH 1.9A, SHIELDED	-
IND FIXED 3.6NH 850MA 59 MOHM	-
FIXED IND 2.2UH 850MA 290 MOHM 0805	-
CAP 0.6pf	-
FIXED IND 2NH 600MA 150 MOHM SMD	DNI
IND RF 3.1NH 3% 350mA 0.4 OHMS 0201	-
IND 1UH 20% 2.3A 70MOHMS 0805	-

RES SMD 10K OHM 1% 1/20W 0201	-
RES SMD 0.0OHM JUMPER 1/20W 0201	-
RES 255K OHM 1/20W 1% 0201 SMD	-
RES 649K OHM 1/20W 1% 0201 SMD	-
RES SMD 1K OHM 1% 1/20W THICK FILM 0201	-
RES 100 OHM 1/20W 5% 0201 SMD	-
RES 5.36K OHM 1% THICK FILM 1/20W 0201	-
RES SMD 100K OHM 1% 1/20W 0201	-
RES 2.21K OHM 1% THICK FILM 1/20W 0201	-
RES SMD 2.2 OHM 1% 1/20W 0201	-
RES SMD 0.0OHM JUMPER 1/20W 0201	DNI
RES 30.9K OHM 1% THICK FILM 1/20W 0201	-
RES SMD 49.9 OHM 1% 1/20W 0201	-
SWITCH TACTILE 12V 50MA 160GRAM 0.15MM 5MMx4.5MM	-
CONN, SWG, RCPT 50 OHM SM	-
IC MEMORY 2GB SPI NAND SLC FLASH 8MMx6MM WSON8	-
IC ACCELLEROMETER AND GYRO 2.5MMX3MM LGA14	-
IC REG DC-DC BUCK LOW IQ SELECTABLE OUTPUT 8 BALL DSBGA	-
LOW NOISE 5V REGULATED CHARGE PUMP DC-DC CONV	-
IC PRESSURE SENSOR 260-1260hPA WATER RESISTANT CCLGA-10L	-
IC 3 AXIS MAGNETOMETER 2MMx2MM LGA12	-
IC REG LDO 3.3V 200MA LOW IQ 4BALL DSBGA	-
IC USB SERIAL BASIC UART 12DFN	-
IC 1 CELL LIPO SWITCHING CHARGER 1.5A I2C WQFN24 4MMx4MM	-
DIO ESD 2CHANNEL PROTECTION 1MMX1MM CSP-4	-
IC PSOC6 12 UDB NO CRYPTO BGA116	-
MODULE GPS, GLONASS, Galileo, BeiDou 14mmx9.6mmx2mm SM	-
IC 2.4GHZ FRONT END MODULE 20QFN	-
IC LI CELL FUEL GAUGE I2C BGA	-
CRYSTAL 32.00MHZ 20PPM 8PF 1.6MMx1.2MM	-
CRYSTAL 25MHZ 10PPM 4pF 1.6MMx2MM	-
PWB, MAIN BRD	

PREF MANUFACTURER	PREF MANUFACTURER PART #
WALSIN TECH	RFANT3216120A5T
Samsung	CL03A105MQ3CSNH
TDK Corporation	C1005X7R1H473K050BB
Murata	GRM033R61A104KE15D
YAGEO	CC0603MRX5R8BB106
AVX	0402ZD106MAT2A
Murata	GRM155R71C224KA12D
Taiyo Yuden	EMK063BJ103KP-F
TAIYO UDEN	LMK105BJ105KV-F
Murata	GRM188R61A226ME15D
MURATA	GRM033R71H102KA12D
MURATA ELECTRONICS NORTH AMERICAN	GRM035R60J475ME15D
TAIYO YUDEN	EMK105BJ105KV-F
MURATA	GRM0335C1H100FA01D
Samsung	CL03C1R2BA3GNNC
TDK Corporation	C1005X5R1A475K050BC
Yageo	CC0402KRX5R6BB474
MURATA	GRM0335C1E4R0CA01D
DIODES INC	BAS40-04T-7-F
DIODES INC	BAT54LP-7
APA ELECTRONIC CO	APA-102-2020-256-6
NEXPERIA	PTV57V5Z1USKYL
Murata	BLM15PX221SN1D
Taiyo Yuden	MAMK2520H2R2M
MURATA	LQW18AN3N6D00
TAYIO YUDEN	MBKK2012T2R2M
MURATA	GJM0335C1HR60WB01D
Murata	LQP03TN2N0B02D
MURATA	LQP03TN3N1B02D
MURATA	DFE201210S-1R0M=P2

VISHAY	CRCW020110K0FKED
VISHAY	CRCW02010000Z0ED
PANASONIC ELECTRONIC COMPONENTS	ERJ-1GNF2553C
Stackpole Electronics Inc	RMCF0201FT649K
VISHAY	CRCW02011K00FNED
VISHAY	CRCW0201100RFKED
VISHAY	CRCW02015K36FKED
Panasonic	ERJ-1GEF1003C
VISHAY	CRCW02012K21FKED
SAMSUNG	RC0603F2R2CS
VISHAY	CRCW02010000Z0ED
VISHAY	CRCW020130K9FKED
PANASONIC	ERJ-1GEF49R9C
DongGuan ZhaoYe Electronica	TS-4406
MURATA	MM8030-2610RJ3
WINBOND	W25M02GVZEIG
ST MICROELECTRONICS	LSM6DSLTR
TEXAS INSTRUMENTS	TPS62743YFPR
ON SEMICONDUCTOR	CAT3200HU2
ST MICROELECTRONICS	LPS35HWTR
ST MICROELECTRONICS	LIS2MDLTR
TEXAS INSTRUMENTS	TLV70533PYFPR
FUTURE TECHNOLOGY DEVICES INTERNATIONAL LTD	FT234XD-R
TEXAS INSTRUMENTS	BQ25619RTWR
ON SEMI	CM1230-02CP
CYPRESS	CY8C6347BZI-BLD33
QUECTEL	L96-M33
SKYWORKS	SE2438T-R
TEXAS INSTRUMENTS	BQ27621YZFR-G1A
CTS	416F32022CKR
ABRACON	ABM11W-25.0000MHZ-4-B1U-T3
TBD	

