

blues wireless

Notecarrier-AE v14

Item	Qty.	Reference	Manufacturer	Mfr. Part #	Description	Supplier	Spr. Part #	Type	Package
1	1	ANT1	PulseLarsen Antennas	W3796	ANTENNA CHIP LTE D=40X7X3 W3796 PULSE SMT	Digi-Key	553-3657-1-ND	SMD	ANT-W3796
2	1	ANT2	PulseLarsen Antennas	W3010	ANTENNA CHIP 1.575GHZ D=3.2X10X2 W3010 PULSE SMT	Digi-Key	553-1670-1-ND	SMD	ANT-W3010
3	1	C51			PCB NOTECARRIER-M2-AX V14 (75X85)mm 4L/50/SR ENIG TG150 sp=1.6mm Cu=35um (CONTROLLED IMPEDANCE)				
4	1	C1			CHIP CERAMIC CAPACITOR 47uF 16V 20% X5R 1206			SMD	CS-C-1206
5	1	C2			CHIP CERAMIC CAPACITOR 4.7uF 6.3V 20% X5R 0402			SMD	CS-C-0402
6	2	C3,C4			CHIP CERAMIC CAPACITOR 10uF 10V 10% X5R 0603			SMD	CS-C-0603
7	5	C5,C6,C9,C10,C23			CHIP CERAMIC CAPACITOR 100nF 16V 10% X7R 0402			SMD	CS-C-0402
8	2	C7,C8			CHIP CERAMIC CAPACITOR 10uF 6.3V 20% X5R 0402			SMD	CS-C-0402
9	1	C11			CHIP CERAMIC CAPACITOR 10nF 1000V 10% X7R 1206			SMD	CS-C-1206
10	1	C20			CHIP CERAMIC CAPACITOR 0.5pF 50V ±0.25pF C0G 0402			SMD	CS-C-0402
11	1	C21			CHIP CERAMIC CAPACITOR 1nF 50V 10% X7R 0402			SMD	CS-C-0402
12	1	C22			CHIP CERAMIC CAPACITOR 1uF 16V 10% X5R 0402			SMD	CS-C-0402
13	1	C24			CHIP CERAMIC CAPACITOR 3.3pF 50V 5% C0G 0402			SMD	CS-C-0402
14	1	DS2	ON Semiconductor	FSV1045V	DIODE SCHOTTKY 10A 45V FSV1045V TO277-3 SMT	Digi-Key	FSV1045VCT-ND	SMD	TO277-3
15	1	DS4	STMicroelectronics	STPS3H100U	DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT	Digi-Key	497-10392-1-ND	SMD	SMB
16	1	F1	Bourns Inc.	SF-0603F150-2	FAST BLOW FUSE 1.5A 32V 0603 SF-0603F150-2 BOURNS SMT	Digi-Key	SF-0603F150-2CT-ND	SMD	FS-0603
17	1	F2	Littelfuse Inc.	0603SFV350F/32-2	FAST BLOW FUSE 3.5A 32V 0603 0603SFV350F/32-2 LITTELFUSE SMT	Digi-Key	0603SFV350F/32-2CT-ND	SMD	FS-0603
18	1	J2	Amphenol ICC (FCI)	10118192-0002LF	CONNECTOR USB F/90° TIPO MICRO-B C.S. 10118192-0002LF FCI SMT	Digi-Key	609-5379-1-ND	SMD	J-5-0065-FOS-uUSB10118192-NOFLG
19	1	J6	Amphenol ICC (FCI)	MDT420E01001	CONNECTOR M 2.75P M/90° P=0.5 MDT420E01001 AMPHENOL SMT	Digi-Key	MDT420E01001CT-ND	SMD	J-3-MDS-UFL
20	2	J7,J8	Hirose Electric Co Ltd	U.FL-R-SMT-1(10)	CONNECTOR RF M U.FL-R-SMT-1(10) HIROSE SMT	Digi-Key	H11891CT-ND	SMD	J-3-MDS-UFL
21	1	L1	Coilcraft	XFL4020-222MEC	INDUCTOR 2.2 uH 3.1A 20% XFL4020-222MEC COILCRAFT SMT	Mouseer	994-XFL4020-222MEC	SMD	LS-XFL4020
22	1	L2	Murata Electronics	1285AS-H-2R2M=P2	INDUCTOR 2.2uH 1.5A 20% 0806 1285AS-H-2R2M=P2 MURATA SMT	Digi-Key	490-10600-1-ND	SMD	LS-0806
23	1	L3	Coilcraft	0603CS-4N3XJLW	INDUCTOR 4.3nH 0.7A 5% 0603 0603CS-4N3XJLW COILCRAFT SMT	Digi-Key	994-0603CS-4N3XJLW	SMD	LS-0603CS
24	1	L4	Coilcraft	0603CS-6N8XJLU	INDUCTOR 6.8nH 0.7A 5% 0603 0603CS-6N8XJLU COILCRAFT SMT	Digi-Key	994-0603CS-6N8XJLU	SMD	LS-0603CS
25	1	L5	Murata Electronics	LQW15AN7N5H00D	INDUCTOR 7.5nH 0.57A 3% A FLO 0402 LOW15AN7N5H00D MURATA SMT	Digi-Key	490-6847-1-ND	SMD	LS-0402
26	1	OBJ1	Würth Elektronik	9774025151R	ROUND STANDOFF STEEL 5.1X2.5 9774025151R W.E SMT	Digi-Key	732-7078-1-ND	SMD	DIET-WASMSIM0250
27	1	Q1	Alpha & Omega Semiconductor Inc.	A03420	TRANSISTOR MOSFET N A03420 SOT-23 ALPHA-OMEGA SMT	Digi-Key	785-1014-1-ND	SMD	SOT23
28	2	RR1,RR2	Bourns Inc.	CAY16-101J8LF	RESISTOR NETWORK 8R sing. 100R 5% 1506 CAY16-101J8LF BOURNS SMT	Digi-Key	CAY16-101J8LFCT-ND	SMD	RR-8X-1506
29	1	R1			CHIP RESISTOR 10M 0402 1/8W 5%			SMD	RS-0402
30	1	R4			CHIP RESISTOR 82K 0402 1/16W 1%			SMD	RS-0402
31	1	R5			CHIP RESISTOR 1M 1206 1/4W 1%			SMD	RS-1206
32	1	R18			CHIP RESISTOR 200K 0402 1/16W 1%			SMD	RS-0402
33	1	R21			CHIP RESISTOR 1K 0402 1/16W 1%			SMD	RS-0402
34	1	R22			CHIP RESISTOR 100K 0402 1/16W 1%			SMD	RS-0402
35	1	SW1	Nidec Copal Electronics	CJS-1200TA	SWITCH SLIDE SPDT ON-ON, CJS-1200TA NIDEC COPAL ELECTRONICS SMT	Digi-Key	563-1021-1-ND	SMD	SW-CJS1200TA
36	1	TVS1	STMicroelectronics	SM6T6V8A	DIODE TVS TRANSIL UNIDIR. 600W 6.8V SM6T6V8A SMB SMT	Digi-Key	497-6501-1-ND	SMD	SMB
37	1	U1	Texas Instruments	TPS62748YFPT	IC TPS62748YFPT TEXAS DSBGA9 SMT	Digi-Key	296-43000-1-ND	SMD	XFBGA8
38	1	U2	Maxim Integrated	MAX1722SELT+T	IC MAX1722SELT+T MAXIM W-DFNE SMT	Digi-Key	MAX1722SELT+TCT-ND	SMD	WDFN6-0200X0200
39	1	U5	Infineon Technologies	BGA725L6E6327FTSA1	IC BGA725L6E6327FTSA1 INFINEON TSLP-6 SMT	Digi-Key	BGA725L6E6327FTSA1CT-ND	SMD	XDFDN6

47

MECHANICAL

1	1	ASS1			DIN 912 M2.5-0.45x4 HEX SOCKET HEAD CAP SCREW, FULLY-THREADED SHAFT, A2 STAINLESS	Grainger	6DA91		THT
2	2	ASS2,ASS3			CABLE COAX uFI-uFI 415-0086-050 HIROSE CINCH CONNECTIVITY SOLUTIONS JOHNSON	Digi-Key	J932-ND		THT

3

NOT MOUNTED

1	1	BAT1	Keystone Electronics	2464	BATTERY HOLDER 2464 KEYSTONE	Digi-Key	36-2464-ND	THT	BATHLD-2464
2	1	C12			CHIP CERAMIC CAPACITOR 10uF 25V X5R 10% 1206			SMD	CS-C-1206
3	1	C13			CHIP CERAMIC CAPACITOR 1uF 16V 10% X5R 0402			SMD	CS-C-0402
4	3	C14,C15,C16			CHIP CERAMIC CAPACITOR 100nF 16V 10% X7R 0402			SMD	CS-C-0402
5	3	C17,C18,C19			CHIP CERAMIC CAPACITOR 33pF 50V 5% C0G 0402			SMD	CS-C-0402
6	2	DS3,DS6	ON Semiconductor	FSV1045V	DIODE SCHOTTKY 10A 45V FSV1045V TO277-3 SMT	Digi-Key	FSV1045VCT-ND	SMD	TO277-3
7	1	DS5	STMicroelectronics	STPS3H100U	DIODE SCHOTTKY 3A 100V STPS3H100U SMB SMT	Digi-Key	497-10392-1-ND	SMD	SMB
8	2	FID1,FID2			FIDUCIAL			SMD	FIDUCIAL
9	1	J1	Seed Technology Co., Ltd	114020163	CONNECTOR GROVE 4P M/D P=2 114020163 SEEDSTUDIO SMT	Digi-Key	1597-114020163-ND	SMD	J-4-0200-MDS-GROVE
10	2	J3,J4	JST Sales America Inc.	B2B-PH-SM4-TBT(LF)(SN)	CONNECTOR PH 2P M/D P=2 B2B-PH-SM4-TBT(LF)(SN) JST SMT	Digi-Key	455-2872-1-ND	SMD	J-2-0200-MDS-B2B-PH-SM4
11	1	J5	JAE Electronics	SF72S006VBAR2500	CONNECTOR NANOSIM 8P F/90° PUSH-PUSH SF72S006VBAR2500 JAE ELECTRONICS SMT	Digi-Key	670-2799-1-ND	SMD	J-NANOSIM-SF72S006VBA
12	1	J9	Samtec Inc.	CES-122-01-T-S	HEADER STRIP 22P F/D P=2.54 H=5.08 CES-122-01-T-S SAMTEC	Digi-Key	SAM1087-22-ND	THT	J-22-0254-FDT-H0508 EDGE
13	1	J10	Samtec Inc.	CES-103-01-T-S	HEADER STRIP 3P F/D P=2.54 H=5.08 CES-103-01-T-S SAMTEC	Digi-Key	SAM1087-03-ND	THT	J-3-0254-FDT-H0508
14	2	PAD1,PAD2			CASTELLATED EDGE VIAS			THT	PAD-THT-CAS-0100
15	1	Q2	Nexperia USA Inc.	BSS84AKM.315	TRANSISTOR MOSFET P BSS84AKM.315 SOT883 SMT	Digi-Key	1727-1263-1-ND	SMD	UFDNF3
16	3	R6,R8,R10			CHIP RESISTOR 10K 0402 1/16W 1%			SMD	RS-0402
17	1	R9			CHIP RESISTOR 470R 0402 1/16W 1%			SMD	RS-0402
18	2	R11,R13			CHIP RESISTOR 100R 0402 1/16W 1%			SMD	RS-0402
19	3	R12,R14,R15			CHIP RESISTOR 22R 0603 1/16W 1%			SMD	RS-0603
20	2	R16,R23			CHIP RESISTOR 15K 0402 1/16W 1%			SMD	RS-0402
21	2	R17,R24			CHIP RESISTOR 100K 0402 1/16W 1%			SMD	RS-0402
22	1	TVS2	Micro Commercial Co	ESDLC5V0M5-TP	DIODE TVS TRANSIL UNIDIR. 20W 5V ESDLC5V0M5-TP SOT563 SMT	Digi-Key	ESDLC5V0M5-TPMSCT-ND	SMD	SOT666
23	1	U3	Texas Instruments	BQ24210DQCT	IC BQ24210DQCT WSON10 TEXAS SMT	Digi-Key	296-28738-1-ND	SMD	WSON10-EXP
24	1	U4	Texas Instruments	TXS0102DQER	IC TXS0102DQER TEXAS XDFDN8 SMT	Digi-Key	296-28368-1-ND	SMD	XDFDN8