

**BOM EXPLOSION REPORT**

Part Number 100-0919-004
Part Revision 01
Part Description PCBA,WDAP5000



Level	Part Type	Item Number	Rev	Part Description	Find Num	Qty	Ref Des	Notes
0	Part	100-0919-004		PCBA, WDAP5000				
.1	Part	100-SPEC-001	A	SPEC, QA REQUIREMENTS, PCBA	10	0		
.1	Part	200-0919-004	01A	PCB, WDAP5000	40	1		
..2	Part	200-SPEC-001	B	SPEC, QA REQUIREMENTS, PCB	40	0		
.1	Part	601-0049-001	A	CAP, TANT, LO-ESR, 100uF, 10%, 10V, EIA 7343 (D)	100	3	C1, C85, C86	
.1	Part	601-0059-001	A	CAP, A/P, 150uF, 20%, 6.3V, SMD	110	2	C2, C87	
.1	Part	600-0373-001	A	CAP, X7R, 1.5uF, 20%, 100V, 1825, T=2.18mm MAX	120	1	C3	
.1	Part	600-0370-001	A	CAP, X7R, 2200pF, 10%, 250VAC, Y2, 2220, T=2.30mm MAX	130	1	C4	
.1	Part	600-0374-001	A1	CAP, X5R, 10uF, 10%, 10V, 1206, T=1.8mm MAX	140	1	C5	
.1	Part	601-0051-001	A1	CAP, TANT, 2.2uF, 10%, 16V, 1206, EIA 3216 (A)	150	6	C7-C12	
.1	Part	600-0171-001	A2	CAP, X7R, 0.1uF, 10%, 16V, 0603, T=0.035"MAX	160	85	C6, C13-C15, C18-C29, C41-C47, C56, C59, C60, C77, C78, C83, C89, C91, C93, C95, C98, C102, C104, C106, C108, C109, C111-C113, C117, C119-C121, C124, C126, C127, C130, C132, C134, C136, C138, C140, C141, C148, C149, C152-C174, C176, C177, C180, C191	

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.1	Part	600-0105-001	A2	CAP, X7R, 0.01uF, 10%, 50V, 0603	170	46	C16, C17, C30-C40, C48-C55, C69, C70, C88, C92, C94, C96, C97, C99, C100, C103, C105, C107, C123, C125, C128, C129, C131, C133, C135, C137, C139, C146, C147, C150, C179	
.1	Part	601-0012-001	A5	CAP, TANT, 10uF, 10%, 6.3V, 1206, EIA 3216 (A)	180	7	C57, C58, C184, C187-C189, C193	
.1	Part	600-0002-001	A2	CAP, COG, 1000PF, 10%, 50V, 0805, T=0.050"MAX	190	1	C61	
.1	Part	600-0098-001	B6	CAP, X7R, 0.1uF, 10%, 50V, 0805, T=1.40mm MAX	200	3	C62, C63, C182	
.1	Part	600-0371-001	A	CAP, C0G, 100pF, 10%, 200V, 1206, T=1.50mm MAX	210	1	C64	
.1	Part	600-0372-001	A	CAP, C0G, 470pF, 10%, 100V, 1206, T=1.50mm MAX	220	1	C65	
.1	Part	600-0212-001	A	CAP, X7R, 1uF, 10%, 16V, 1206, T=1.52mm MAX	225	1	C66	
.1	Part	600-0194-001	A	CAP, COG, 180pF, 5%, 50V, 0603	230	2	C67, C75	
.1	Part	600-0342-001	A	CAP, X5R, 4.7uF, 10%, 10V, 1206, T=1.8mm MAX	240	3	C68, C76, C80	
.1	Part	600-0359-001	A1	CAP, X7R, 1000pF, 10%, 50V, 0603 (602431-026)	250	4	C71, C73, C81, C82	
.1	Part	600-0121-001	A2	CAP, COG, 33PF, 5%, 50V, 0603	260	2	C72, C74	
.1	Part	600-0198-001	A3	CAP, X7R, 1.0uF, 10%, 10V, 0805	270	1	C79	
.1	Part	600-0207-001	A1	CAP, C0G, 10pF, +/-5pF, 6V, 0402, T=0.61mm MAX	280	1	C110	
.1	Part	601-0060-001	A	CAP, TANT, LO-ESR, 15uF, 20%, 35V, EIA 7343 (D)	290	1	C84	
.1	Part	602-0023-001	A	CAP, A/E, 22uF, 20%, 100V, SMD, 8 x 10mm	300	1	C90	
.1	Part	600-0181-001	B1	CAP, X7R, 0.001uF, 20%, 50V, 0603, T=0.035"MAX	310	1	C101	

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.1	Part	600-0197-001	A	CAP, COG, 10pF, 5%, 50V, 0603	320	1	C142	
.1	Part	600-0116-001	A2	CAP, COG, 22PF, 5%, 50V, 0603	330	2	C144, C145	
.1	Part	600-0135-001	A2	CAP, X7R, 0.01UF, 10%, 100V, 1206	340	4	C151, C175, C178, C181	
.1	Part	600-0349-001	A	CAP, X7R, 8200pF, 10%, 2KVDC, 1812, T=2.54mm MAX	350	1	C190	
.1	Part	420-0105-001	A	DIODE, ULTRAFAST, 200V, 3.0A, ES3D/B, SMB	360	2	D1, D2	
.1	Part	420-0104-001	A	DIODE, SCHOTTKY, 20V, 3.0A, B320B, SMB	370	3	D3, D4, D18	
.1	Part	420-0033-001	A1	DIODE, SWITCHING, 200V, BAS21, SOT-23	380	2	D5, D6	
.1	Part	420-0001-001	A2	DIODE, SWITCHING, 914, SOT-23	390	1	D7	
.1	Part	420-0106-001	A	DIODE, SCHOTTKY, 60V, 12A, 12CWQ06FN, TO-252AA	400	1	D8	
.1	Part	420-0108-001	A	DIODE, SCHOTTKY, 30V, 100mA, CMDSH-3, SOD-323	410	2	D9, D14	
.1	Part	420-0109-001	A	DIODE, SCHOTTKY, 70V, 1A, B170, SMA	420	6	D10-D13, D15, D16	
.1	Part	420-0023-001	A2	DIODES, ZENER, 15V, 5%, SOD-123	430	1	D17	
.1	Part	420-0107-001	A	DIODE, ZENER, 7.5V, 5%, 20mA, 500mW, SOD-123	435	2	D19, D20	
.1	Part	422-0062-001	A	LED, ORG, SUPERBRIGHT, 1206	440	1	DS1	
.1	Part	422-0063-001	A	LED, GRN, SUPERBRIGHT, 1206	450	4	DS2, DS5, DS6, DS8	
.1	Part	422-0064-001	A	LED, YEL, SUPERBRIGHT, 1206	460	3	DS3, DS4, DS7	
.1	Part	240-0392-001	A	CONN, HDR, 2-POS, 1x2, 2.0mm, VERT, THD	465	1	J5	
.1	Part	533-0049-001	A	FERRITE, CHIP, 30 OHM @ 100MHz, 3A, 0805	470	5	L1-L5	
.1	Part	535-0169-001	A	IND, 4.7uH, 20%, 1.5A, 0.09 OHM, SMD	480	1	L6	
.1	Part	533-0023-001	A	FERRITE BEAD, MTD, 998 OHM @ 100Mhz, THRU HOLE DEVICE	490	2	L7, L8	

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.1	Part	535-0170-001	A	IND, 1uH, 20%, 4A, 0.019 OHM, EIA2220	500	1	L9	
.1	Part	535-0171-001	A	IND, 10uH, 10%, 2.3A, 0.07 OHM, SMD	510	2	L10, L11	
.1	Part	532-0094-001	A	XSTR, MOSFET, DUAL N-CH, Si4816, 30/30V, 5.3/7.7A, 1.0/1.25W, SO-8	520	2	M1, M2	
.1	Part	532-0095-001	A	XSTR, PWR MOSFET, N-CH, IRFR220N, 200V, 5A, TO-252AA	530	1	M3	
.1	Part	240-0316-001	A1	CONN, RJ45, SOCKET, 8/8, RTA-PCB, HI TEMP	550	1	P1	
.1	Part	240-0385-001	A1	CONN, 124-POS, RCPT, 0.8mm, MINI-PCI	570	2	P3, P4	
.1	Part	2000062	A3	CONN, POWERJACK, 2.5MM, MALE ROUND PCB-MOUNT	580	1	P5	
.1	Part	240-0390-001	A	CONN, HDR, 12-POS, 2x6, 1mm, RTANG, SMD	590	1	P6	
.1	Part	604-0044-001	A1	CKT PROT, RESETABLE, 60V, 0.55A, SMD	600	2	PS1, PS2	
.1	Part	2000630	B4	XSTR, PNP, 3906, 40V, 200mA, 225mW, SOT-23, T=1.15mm MAX	604	1	Q1	
.1	Part	2001835	A4	XSTR, NPN, 3904, 40V/60V, 200mA, 625mW, SOT-23, T=1.28mm MAX	606	1	Q2	
.1	Part	503-0053-001	B	RES CHP, 10.0 OHM, 1%, 0603	610	3	R1-R3	
.1	Part	502-0052-001	A5	RES CHP, 22.1 OHM, 1%, 0402	620	4	R4, R5, R14, R162	
.1	Part	502-0196-001	A	RES CHP, 56.2 OHM, 1%, 0402	625	4	R94-R97	
.1	Part	502-0001-001	A5	RES CHP, 0 OHM JUMPER, 0402	630	27	R6-R8, R48, R85, R142, R145, R147-R149, R166, R168, R193-R196, R208, R222, R223, R225, R227-R231, R237, R239	
.1	Part	502-0003-001	A6	RES CHP, 33.2 OHM, 1%, 0402	650	33	R10, R15, R52-R75, R86-R92	

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.1	Part	502-0015-001	A6	RES CHP, 1.00K, 1%, 0402	670	16	R11, R12, R20, R22, R24, R99, R102-R105, R111, R113, R127, R136, R150, R160	
.1	Part	502-0055-001	A5	RES CHP, 4.75K, 1%, 0402	680	3	R13, R101, R165	
.1	Part	502-0225-001	A	RES CHP, 10K, 5%, 0402	690	22	R16-R19, R21, R23, R26-R33, R35-R39, R98, R146, R175	
.1	Part	503-0033-001	A	RES CHP, 30.1K, 1%, 0603	700	1	R25	
.1	Part	502-0137-001	A	RES, CHP, 121 OHM, 1%, 0402	710	1	R34	
.1	Part	502-0232-001	A	RES CHP, 1.1K, 5%, 0402	720	1	R41	
.1	Part	503-0001-001	A1	RES CHP, 20.0K, 1%, 0603	730	2	R43, R158	
.1	Part	503-0057-001	B	RES CHP, 15.0K, 1%, 0603	740	2	R44, R157	
.1	Part	505-0138-001	A	RES CHP, 18 OHM, 5%, 1206	750	2	R45, R81	
.1	Part	2000601	B1	RES CHP, 3.01K, 1%, 0805	760	1	R46	
.1	Part	502-0005-001	A6	RES CHP, 51.1 OHM, 1%, 0402	770	2	R47, R163	
.1	Part	2000635	A2	RES CHP, 1.5K, 5%, 0805	780	1	R76	
.1	Part	504-0150-001	A	RES CHP, 2.4K, 5%, 0805	790	1	R77	
.1	Part	505-0022-001	A	RES CHP, 33 OHM, 5%, 1206	800	1	R78	
.1	Part	2000287	A1	RES CHP, 300 OHM, 5%, 1206	810	1	R79	
.1	Part	505-0012-001	A	RES CHP, 10.0 OHM, 1%, 1206	820	1	R80	
.1	Part	502-0255-001	A	RES CHP, 1.6 OHM, 5%, 0402	830	1	R93	

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.1	Part	502-0027-001	A7	RES CHP, 10.0K, 1%, 0402	840	33	R82, R110, R117, R119, R121, R123, R125, R129, R131, R133, R135, R174, R197-R200, R202-R206, R209-R214, R216-R221	
.1	Part	2002109-001	A2	RES CHP, 51.1 OHM, 1%, 0805	850	6	R138-R140, R177-R179	
.1	Part	2000785	A2	RES CHP, 0 OHM JUMPER, 0805	860	3	R233-R235	
.1	Part	505-0139-001	A	RES CHP, 0.015 OHM, 1%, 1206	870	2	R151, R152	
.1	Part	2002237-001	A3	RES CHP, 0 OHM JUMPER, 0603	880	1	R153	
.1	Part	505-0042-001	A	RES CHP, 47K, 5%, 1206	890	1	R154	
.1	Part	504-0215-001	A	RES CHP, 28.7K, 1%, 0805	900	1	R155	
.1	Part	503-0005-001	A2	RES CHP, 10K, 5%, 0603	905	2	R156, R176	
.1	Part	503-0232-001	A	RES CHP, 63.4K, 1%, 0603	910	1	R159	
.1	Part	502-0009-001	A5	RES CHP, 100 OHM, 1%, 0402	920	1	R42	
.1	Part	502-0047-001	A5	RES CHP, 51K, 5%, 0402	930	1	R161	
.1	Part	506-0019-001	A	RES CHP, 9.31K, 1%, 1206	940	1	R169	
.1	Part	2001786	B1	RES CHP, 51.1 OHM, 1%, 0603	950	4	R170-R173	
.1	Part	505-0088-001	A	RES CHP, 24.9K, 1%, 1206	960	1	R180	
.1	Part	502-0039-001	A7	RES CHP, 100K, 1%, 0402	962	1	R181	
.1	Part	504-0033-001	A2	RES CHP, 5.6K, 5%, 0805	964	1	R182	
.1	Part	504-0216-001	A	RES CHP, 5.1K, 5%, 0805	966	1	R183	
.1	Part	502-0103-001	A1	RES CHP, 243 OHM, 1%, 0402	970	4	R184-R186, R232	

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.1	Part	2000596	A3	RES CHP, 75.0 OHM, 1%, 0805	980	2	R187, R188	
.1	Part	504-0010-001	A1	RES CHP, 100K, 1%, 0805	982	1	R189	
.1	Part	508-0001-001	A2	RES CHP, 10K, 5%, 0805	984	1	R190	
.1	Part	502-0060-001	A1	RES CHP, 1.00M, 1%, 0402	986	1	R191	
.1	Part	506-0016-001	A2	RES CHP, 0 OHM JUMPER, 1210	988	5	R9, R83, R84, R192, R224	
.1	Part	530-0012-001	A	SWITCH, SPST, PB, TACT, RTANG, THD	990	1	SW1	
.1	Part	700-0103-001	A	MOD, ISO, 10/100, DUAL PORT, 1:1, W/CMC, H2005A, SMD-24	1000	1	TX1	
.1	Part	700-0104-001	A1	XFMR, FLYBACK, 1800VAC ISO, EFD15, SMD-12	1010	1	TX2	
.1	Part	417-0254-001	A1	IC, INTEGRATED PROCESSOR, 266MHz, MPC8245, TBGA-352	1020	1	U1	
.1	Part	412-0099-001	A	IC, SH REG, SER IN, PAR OUT, 74LV164, TSSOP-14	1030	1	U2	
.1	Part	418-0177-001	B	IC, PREPRGM FLASH MEM. E28F640J3A120, WDAP5000	1040	1	U3	Checksum=599E3F0A
..2	Part	408-0055-001	A	IC, FLASH, 64Mb, 8Mx8/4Mx16, 3V, E28F640J3A120, 120nS, TSOP-56	10	1		
..2	Part	822-1098-002	A	DISK IMAGE, FIRMWARE, DRIVER BIN FILE, WDAP5000, V1.10	20	0		CS=599E3F0A
.1	Part	410-0061-001	A	IC, XCVR, OCTAL, 74LCX245, TSSOP-20	1050	1	U4	
.1	Part	404-0047-001	A	IC, SDRAM, 64Mb, 512K x 128, 48LC2M32, 3.3V, 5.5nS, TSOP-86	1060	2	U5, U6	
.1	Part	414-0028-001	A1	IC, BFR, TC7SZ125FU, SSOP5-P-0.65A	1070	2	U7, U21	
.1	Part	414-0015-001	B1	IC, 2-IN AND, NC7SZ08, SOT-23-5, T=1.20mm MAX	1080	4	U8, U9, U13, U20	
.1	Part	403-0049-001	A	IC, D-F/F, 74LVX74, TSSOP-14	1090	1	U10	
.1	Part	412-0097-001	A	IC, HEX INV, 74LCX04, TSSOP-14	1110	1	U12	
.1	Part	417-0256-001	A	IC, CTRLR, MAC/PHY, 10/100, DP83815UJB, uBGA-160	1130	1	U15	

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.1	Part	413-0097-001	A	IC, REG, SW, ISO FLYBACK, ADJ, 6W, LT1425, SSOP-16	1140	1	U16	
.1	Part	413-0098-001	A	IC, REG, SW, DUAL SYNC STEP-DN, 5V&3.3V, 5A, SSOP-28	1150	1	U17	
.1	Part	417-0262-001	A	IC, TRIPLE SUPPLY MONITOR, 2.5V, LTC1728, SOT-23-5	1160	1	U18	
.1	Part	414-0014-001	A	IC, 2-IN AND, TC7SH08FU, SSOP5-P-A	1165	1	U19	
.1	Part	403-0053-001	01A	IC, D-F/F w/PRST&CLR, 7W74FU, SSOP-8-P-0.65	1167	4	U22-U25	
.1	Part	413-0110-001	01A	IC, ANLG MX/DMX, TC7W53FU, SSOP-8-P-0.65	1169	4	U26-U29	
.1	Part	622-0045-001	A	XTLO, 33.000MHz, 50ppm, 3.3V, 15pF, 7.5x5.0x1.4mm	1170	1	Y1	
.1	Part	620-0050-001	A2	XTAL, 25.000MHz, 20/30ppm, 20pF, 100uW, 7.5x5.0x1.1mm	1180	1	Y3	

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