

## eZ430-Chronos Access Point, 868 V1.1d BOM - white PCB

<u>Designator</u>	<u>Value</u>	<u>Tolerance</u>	<u>Footprint</u>	<u>Description</u>	<u>Manufacturer</u>
C1	2.2nF	+10%, X7R	402	Capacitor SMD	Johanson 500R07S1R8BV4
C2	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C3	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C4	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C5	470nF	+10%, X5R	402	Capacitor SMD	
C6	220nF	+10%, X5R	402	Capacitor SMD	
C7	220nF	+10%, X5R	402	Capacitor SMD	
C8	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C9	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C10	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C11	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C12	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C13	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C14	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C15	15pF	+5%, COG/NP0	402	Capacitor SMD	
C16	15pF	+5%, COG/NP0	402	Capacitor SMD	
C17	na				
C18	1.8pF	+0.1pF, COG/NP0	402	Capacitor SMD	
C20	10pF	+5%, COG/NP0	402	Capacitor SMD	Johanson L-07C22NJV6
C21	10pF	+5%, COG/NP0	402	Capacitor SMD	
C22	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C23	1.0uF	+10%, X5R	402	Capacitor SMD	
C24	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C25	1.0uF	+10%, X5R	402	Capacitor SMD	
D1	green		603	LED SMD	
E1	0868AT43A0020			Chip Antenna 868MHz	Johanson
L1	22nH	+5%	402	Inductor Monolithic SMD	e.g. Lumberg 241007
P1	USB Type A			USB Plug	
PCB1	CUSTOM, solder stop white			PCB, 4 layers, 0.8 mm thick	
R1	47k	+5%	402	Resistor SMD	TI
R2	270R	+5%	402	Resistor SMD	
R3	na				
R4	1M	+5%	402	Resistor SMD	
R5	1.4k	+5%	402	Resistor SMD	
R6	27R	+5%	402	Resistor SMD	
R7	27R	+5%	402	Resistor SMD	
R8	100R	+5%	402	Resistor SMD	
R9	56k	+1%	402	Resistor SMD	
R10	0R	+5%	402	Resistor SMD	
R11	0R	+5%	402	Resistor SMD	
R12	0R	+5%	402	Resistor SMD	
U1	MSP430F5509IRGZR		QFN48	MCU	TI
U2	CC1101RTKR		QLP20	ISM Transceiver	

U3	0868BM15C0001			Balun 868MHz	Johanson
U4	TPD2E001DRLR		DRL5	ESD Protection	TI
U5	TPS78225DDCR		TSOT23-5	Linear Regulator	TI
Y1	26MHz, CL=10pF, ESR<=40Ohm	+/-10ppm	3.2 x 2.5 mm2	Crystal SMD	Epson TSX3225-X1E000021014300
Y2	32.768kHz, CL=12.5pF, ESR<=80kOhm	+/-20ppm	1.5x1.5x6.7mm	Crystal SMD	MicroCrystal MS3V-T1R