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## Bill of Materials

Datum:	24. Januar 2019
Zeit:	11:28:25
Variante:	None
Bezeichnung:	EMR Z8 UB8820 / UB8840 Dev.
Revision:	Board TB4 0.1

Quantity	Designator	Footprint	Bemerkung	Value	MFT	Order-code	shotech
	B1U200	USB_10033526_N3212LF	65P MINI USB B RECPACLE	10033526-N3212LF	FCI	10033526-N3212LF	
	B1U500	1613_14	CHASSIS BUGHSE, PSU SMT	1613 14	Lumberg	1613 14	
	C209	C1206_N	CAPACITOR, 1206, X7R, 25V, 4.7uF	4.7uF/25V	Murata	GRM31CR71E475KA88L	
	C210	C0603_N	SMD-Vs-Kond 100nF 50V 10% X7R 0603	100nF/50V	Samsung	CL10B104K8BNNNC	
	C211	C0603_N	SMD-Vs-Kond 10nF 16V 10% X7R 0603	10nF	YAGEO (PHYCOMP)	CC0603KRX7R8BB103	
2	C213, C214	C0805_N	KONDENSATOR, 0805, NP0, 50V, 22PF, 5%	22pF			
3	C215, C216, C508	C0603_N	KONDENSATOR, 0603, NP0, 50V, 22PF, 5%	22pF	TDK Corporation	C1608C0G1H220J080AA	
6	C400, C401, C402, C403, C404, C405, C406, C407, C409	C0603_N	SMD-Vs-Kond 100nF 16V 10% X7R 0603	100nF	DARFON	CVNF100K0603	
	C408, C410, C411	CAPC3216X18N	CAPACITOR, 1206, X7R, 16V, 2.2uF	2.2uF/16V	Samsung	CL1B225X0HNNNE	
1	C500	CAPA680X550N	KONDENSATOR, ALU, 35V, 47uF, 20%, 0.06R, AC-ripp 900mA	47uF/35V	Panasonic	EEH2C1V470P	
1	C501	C0805_N	SMD-Vs-Kond 100nF 50V X7R 0805	100nF	Samsung	CL21B104K8BNNNC	
2	C502, C507	C0805_N	KONDENSATOR,0805,X7R,25V,1uF	1uF/25V	AVX	08053C105K422A	
4	C503, C504, C505, C512	C1210	KONDENSATOR, 1210, X7R, 16V, 22uF	22uF/16V	TDK	C3225X7R1C226K250AC	
1	C506	C0603_N	KONDENSATOR,NP0,0603,50V,30PF	30pF	KEMET	C0603C300J5GACTU	
1	C509	C0603_N	CAP CER 1000PF 50V 5% X7R 0603	1nF			
1	C510	C0805_N	CAP CER 1uF 50V 10% X7R 0805	1uF/50V	Samsung Electro-Mechanics America, Inc	CL21B105KBNNNE	
1	C511	C0805_N	CAPACITOR, 0805, X7R, 10V, 2.2uF	2.2uF/10V	Murata	GRM21BR71A225KA01L	
1	D200	SOD2513X110N	SMD-TVS-Diode unid., 500W 5V SOD323	PSD05	Protek-Devices	PSD05-LF-T7	
2	D500, D501	DIOM6336X244N	DIODE SCHOTTKY,1A, 60V, SMD,DO-214	SS26	FAIRCHILD SEMICONDUCTOR	SS26	
1	D502	DIOM6226X223N	SMD-Z-Diode 1.3W 24V SMA	Z1SMA24	FAGOR ELECTRONICA	Z1SMA24	
1	D503	DIOM6436X244N	SMD-TVS-Diode bjp 600W 30V SMB	SMBJ30CA	TAIWAN SEMICONDUCTOR (TSC)	SMBJ30CA	
1	F500	FUSE_1812	SICHERUNG, PTC, 1.1A, 24V, 1812	24V/1.1A	BOURNS	MF-MSMF110/24X-2	
1	FB203	I0805_NC		BLM21PG221SN1D	Murata	BLM21PG221SN1D	
1	FB500	I1206_NC		742792121	WURTH ELEKTRONIK	742792121	
1	IC500	SOT96P270X145-5N	Strom- und Leistungswächter und -regler High Side Crnt Mtr	ZXCT1021	Diodes Incorporated	ZXCT1021E5TA	
1	JP400	YTC150ALAA_01	FFC-Connector				
1	L500	INDP7366X30N	10uH, 4A Irms, 5.5A Isat, 68mR	10uH	Chilisin Electronics Corp.	MHC106030-100M-RBA	
1	LCD400		TFT 128x128		Wintek	WM-F1212VB	
2	Q400, Q401	SOT96P230X110-3N		BC847	NDP	BC847	
2	R207, R209	R0805	WIDERST,0805,1K,1%,SCHWEFEL-RESIST	1k	MULTICOMP	MCSR08X1001FTL	
1	R208	R0805_N	WIDERSTAND, 0805, 4.7kR, 1% 100ppm	4.7k			
1	R400	R0603	RESISTOR, 0603, 10k0, 1%	10k	VISHAY DRALORIC	CRCW060310K0FKEA	
4	R401, R402, R403, R500	R0603	RESISTOR, 0603, 47k0, 1%	47k	VISHAY DRALORIC	CRCW060347K0FKEA	
1	R404	R0603	WIDERSTAND, 0603, 4.7kR, 1% 100ppm	4.7k	VISHAY DRALORIC	CRCW06034K70FKEA	
1	R405	R0603	WIDERSTAND, 0603, 36R, 1%	36R	Yageo	RC0603FR-0736RL	
1	R501	R0603_N	WIDERSTAND, 0603, 63.4k, 1%	63.4k	VISHAY DRALORIC		
1	R502	R0603_N	RESISTOR, 0603, 82k0, 1%	82k	Yageo	RC0603FR-0782KL	
1	R503	R0603_N	RESISTOR, 0603, 11.8k0, 1%	11.8k	Panasonic	ERJ-3EKF1182V	
1	R504	RES03125X07N	Strommesswiderstände - SMD 1watt, 24ohms 1% 100ppm	0.24R	Vishay / Dale	RCW1E1210R240FKEA	
2	RN402, RN403	EXB38V	WIDERSTAND,CVEX ARRAY,0603X4,10K 5%	4x10k	Panasonic	EXB38V103JV	
1	SW200	TMG-325	SMD-Taster 1NO 12V 50mA 4.3mm 130gf	Tact Switch	China	Product ID: 1813303037	
1	U203	SOP127P600X175-16N	USB-RS232-Bridge TTL, S016	CH340G	WCH	CH340G	
1	U400	TSSOP50P810X120-48N	Übersetzungsspannungs-Pegel Tri-State 16-Bit	74ALVC164245DGG	Texas Instruments	SN74ALVC164245DGGGR	
2	U402, U404	SOT96P210X110-5N	Puffer u. Leitungstreiber SGL Per Supply SGL Buffer GATE	SN74LV1T125D	Texas Instruments	SN74LV1T125DBVR	
1	U403	SOT96P280X145-6N	Schaltspannungsregler Positive Doubling out 5V to 11V	TC1240A	Microchip	TC1240AECNTR	
1	U405	SOIC127P600X173-8N	Serial-F-RAM 256Kbit ( 32KBx8 )	FM25V02A-G	Cypress Semiconductor	FM25V02A-G	n.g
1	U500	SOP127P600X175-8N	2A, 26V, 380kHz, Asynchronous Step-Down Converter	APW7085	ANPEC Electronics Corp.	APW7085	
1	U501	SOT89-150P410X160-3N	500mA TinyPowerTM LDO 3.3V	HT7833	Holtek	HT7833-SOT89	
1	Y201	OSCCC320X250X70N	Quarz -SMD 12.000MHz 3.2x2.5mm, 20pF, 30R, 10ppm	12,0000MHz	China	627870671 - X32FG20QSA12000	
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