



RD-88MW320-QFN-1B-2A v1.0

Revision History

Document Type: Reference Design - Bill of Material			
Revision History			
Design Revision	Document Revision	Release Date	Description of Change
v1.0	Rev. 1	21-Jul-20	Initial release.



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Bill of Material (BoM)

RF Critical	Item Number	Quantity	Part Reference	Description	Manufacturer Part Number 1	Manufacturer Part Number 2	Manufacturer Part Number 3
NXP	1	1	U1	NXP 88MW320 WLAN Microcontroller SoC QFN68L 0.4 mm 8x8x1 mm	NXP 88MW320-A0-NAPE	--	--
RF Critical	2	1	U2	IC RF SW SPDT 0.1 GHz-3 GHz VCTL 1.8V-5V MLPD-6 0.35 mm 1x1x0.5 mm	SKY SKY13323-378LF	--	--
--	3	1	U3	IC SPI+QPI SRL FLASH DUAL/QUAD I/O 32M 2.7-3.6V 133 MHZ WSON-8 6x5x0.8 mm	MACRONIX MX25L3233FZNI-08G	WINBOND W25Q32JVZPIQ	--
--	4	1	R1	RES THICK FILM 6.04 kohm 1/20W 1% 0201 SMD	Cyntec PFR03S-6041-FNH	Walsin WR02X6041FAL	Yageo RC0201FR-076K04L
--	5	4	R4, R5, R6, R7	RES THICK FILM 51 kohm 1/20W 5% 0201 SMD	Cyntec PFR03S-513-JNH	Walsin WR02X513 JAL	Yageo RC0201JR-0751KL
RF Critical	6	2	C40, C41	CAP CER 33 pF 5% 25V C0G 0201 (0.3 mm)	MURATA GRM0335C1E330J	WALSIN 0201N330J250LT	TDK C0603C0G1E330J
--	7	7	C8, C21, C22, C23, C24, C25, C26	CAP CER 0.01 uF 10% 10V X7R 0201 (0.3 mm)	MURATA GRM033R71A103K	WALSIN 0201B103K100CT	TDK C0603X7R1A103K
--	8	10	C9, C10, C12, C13, C14, C16, C17, C27, C28, C29	CAP CER 0.1 uF 10% 6.3V X5R 0201 (0.3 mm)	MURATA GRM033R60J104K	WALSIN 0201X104K6R3CT	TDK C0603X5R0J104K
RF Critical	9	2	L2, L3	IND MLC 22 nH ±5% 300 mA 0402 SMD HI-Q	MURATA LQG15HS22NJ02	TDK MLG1005S22NJ	--
RF Critical	10	1	J1	CONN RF W.FL COAX MALE 2.0x2.0x0.85 mm SMD	HIROSE W.FL-R-SMT-1(10)	IPEX 20369-001E	--
	11	3	C1, C2, C11	CAP CER 10 uF 20% 6.3V X5R 0402 (0.5 mm)	Murata GRM155R60J106ME44D	TDK C1005X5R0J106M050BC	--
RF Critical	12	4	C34, C35, C36, C37	CAP CER 10 pF 5% 25V C0H 0201 (0.3 mm)	Murata GJM0336C1E100JB01		--
--	13	2	C3, C4	CAP CER 1 uF 20% 6.3V X5R 0201 (0.3 mm)	TDK C0603X5R0J105M030BC		--
--	14	3	C18, C19, C20	CAP CER 2.2 uF 10% 6.3V X5R 0402 (0.3 mm)	TDK C1005X5R0J225K050BC		--
--	15	1	Y2	XTAL 38.4 MHz ±10ppm FUND 10 pF 60 ohm -30C/+85C SMD 1.6X1.2X0.4 mm	TXC 8Q38470003		--
--	16	1	SH1	RF SHIELD RD-MC200W8801-V2 1-PC SPTE 0.15 mm ±0.01 mm THICK 28x18.4x2 mm	BRIGHT-LINK SP15-14-01	AKS ASH0194	--
RF Critical	17	1	FL1	FILTER BP 2450 MHz ±50 MHz IL=1.3 dB MAX LGA-3 1.6x0.8x0.6 mm	TDK DEA162450BT-1298A1		--
--	18	1	L1	IND WWC 2.2 uH ±20% 1000 mA 0805 SMD □	TAIYO YUDEN BRC2012T2R2MD		--