



BILL OF MATERIALS FOR RF MODULES USB AND NON-USB

VANTAGE RF MODULE USB

QTY	Reference	Part	Manufacturer PN	Manufacturer	Description
1	A1	2450AT43A100E	2450AT43A100E	Johanson Technology Inc.	ANTENNA CHIP 2.4GHZ
1	C1	10pF	500R07N100JV4T	Johanson Dielectric Inc.	CAP CER 10PF 50V 5% NP0 0402
1	C3	10nF	CC0402KRX7R9BB103	Yageo	CAP CER 10000PF 50V 10% X7R 0402
6	C4,C6,C9,C15,C19,C20	0.1uF	C1005X5R1A104M050BA	TDK Corp.	CAP CER 0.1UF 10V 20% X5R 0402
1	C5	4.7uF	C0603C475K9PACTU	Kemet	CAP CER 4.7UF 6.3V 10% X5R 0603
2	C8,C7	15pF	CC0402JRNPO9BN150	Yageo	CAP CER 15PF 50V 5% NPO 0402
2	C10,C12	10uF	CC0805ZKY5V6BB106	Yageo	CAP CER 10UF 10V Y5V 0805
1	D1	GREEN LED	APT2012ZGC	Kingbright Corp.	LED 2X1.2MM 525NM GN WTR CLR SMD
1	D2	BLUE LED	APT2012QBC/D	Kingbright Corp.	LED 2X1.2MM 470NM BL WTR CLR SMD
1	L2	60 ohm	74279267	Würth Electronics	FERRITE BEAD 60 OHM .5A 0603
5	R1,R2,R4,R5,R7	0 ohm	RC0402JR-070RL	Yageo	RES 0.0 OHM 1/16W 0402 SMD
2	R3, R8	220 ohm	RC0402JR-07220RL	Yageo	RES 220 OHM 1/16W 5% 0402 SMD
1	R6	100K ohm	RC0402JR-07100KL	Yageo	RES 100K OHM 1/16W 5% 0402 SMD
1	USB	USB-A PIGTAIL	887283202	Molex Inc.	USB A-PIGTAIL .81M FULL RATE BLK
1	U1	MC13224VR2	MC13224VR2	Freescale Semiconductor	IC PLATFORM PIP802.15.4 145LGA
1	U1	EMF SHIELD	Can type	SMT	BOARD SHIELD .476X.538" 1PIECE
1	U2	FT232R	FT232RQ-REEL	FTDI Ltd.	IC USB FS SERIAL UART 32-QFN
1	Y1	TSX-3225 24.0000MF20G-AC3	TSX-3225 24.0000MF20G-AC3	Epson	CRYSTAL 24.0000MHZ 9PF SMD



VANTAGE RF MODULE NON-USB

QTY	Reference	Part	Manufacturer PN	Manufacturer	Description
1	A1	2450AT43A100E	2450AT43A100E	Johanson Technology Inc.	ANTENNA CHIP 2.4GHZ
1	COM	DF11-16DP-2DSA	DF11-16DP-2DSA(01)	Hirose Electric Co Ltd.	CONN HEADER 16POS 2MM PCB GOLD
1	C1	10pF	500R07N100JV4T	Johanson Dielectric Inc.	CAP CER 10PF 50V 5% NP0 0402
3	C15,C19,C20	0.1uF	C1005X5R1A104M050BA	TDK Corp.	CAP CER 0.1UF 10V 20% X5R 0402
2	C10, C12	10uF	CC0805ZKY5V6BB106	Yageo	CAP CER 10UF 10V Y5V 0805
1	C11	1.0uF	C1005X5R1A105K050BB	TDK Corp.	CAP CER 1UF 10V 10% X5R 0402
1	C13	470pF	500R14N471JV4T	Johanson Dielectric Inc.	CAP CER 470PF 50V 5% NP0 0603
1	D1	GREEN LED	APT2012ZGC	Kingbright Corp.	LED 2X1.2MM 525NM GN WTR CLR SMD
1	D2	BLUE LED	APT2012QBC/D	Kingbright Corp.	LED 2X1.2MM 470NM BL WTR CLR SMD
1	L2	60 ohm	74279267	Würth Electronics	FERRITE BEAD 60 OHM .5A 0603
4	R4,R5,R7	0 ohm	RC0402JR-070RL	Yageo	RES 0.0 OHM 1/16W 0402 SMD
2	R3, R8	220 ohm	RC0402JR-07220RL	Yageo	RES 220 OHM 1/16W 5% 0402 SMD
1	R6	100K ohm	RC0402JR-07100KL	Yageo	RES 100K OHM 1/16W 5% 0402 SMD
1	U1	MC13224VR2	MC13224VR2	Freescale Semiconductor	IC PLATFORM PIP802.15.4 145LGA
1	U1	EMF SHIELD	Can type	SMT	BOARD SHIELD .476X.538" 1PIECE
1	U3	MIC5205-3.3YM5	MIC5205-3.3YM5 TR	Micrel Inc.	IC REG LDO 3.3V .15A SOT23-5
1	Y1	TSX-3225 24.0000MF20G-AC3	TSX-3225 24.0000MF20G-AC3	Epson	CRYSTAL 24.0000MHZ 9PF SMD