


**Ketra Inc.**

## **Ketra VER006 2.4GHz ZigBee Module**

**Bill of Materials**

**Part #: 830-000057-xx**

	<b>Title</b> <b>Ketra VER006 2.4GHz ZigBee Module – Bill of Materials</b>		
	<b>Size</b> <b>A</b>	<b>Ketra Part Number</b> <b>830-000057-xx</b>	<b>Rev</b> <b>A</b>
	<b>Date</b> <b>July 20, 2015</b>		<b>Sheet</b> <b>1 of 2</b>

Item	item_name	quantity	reference_designator	PCB Footprint	Value
1	CAP, Ceramic, SMD, 0.1uF, 10V, X5R, 0201	5	C12,C15,C19,C20,C22	201	0.1uF
2	Cap, Ceramic, SMD, 1uF, 10%, 6.3V, X5R, 0402	4	C1,C2,C17,C21	402	1u
3	Cap, Ceramic, SMD, 2.2 uF, 10%, 16V, X5R, 0603	3	C3,C16,C23	603	2.2u
4	CAP, Ceramic, SMD, 0.01uF, 16V, 10%, X5R, 0201	5	C5,C10,C11,C14,C18	201	0.01uF
5	CAP, Ceramic, SMD, 8.0pF, 25V, 0.5pF, C0G, 0201	3	C4,C8,C13	201	8.0 pF
6	CAP, Ceramic, SMD, 0.47uF, 6.3V, 20%, X5R, 0201	1	C9	201	0.47 uF
7	CAP, Ceramic, SMD, 22pF, 25V, 5%, C0G, 0201	2	C6,C7	201	22 pF
8	CAP, Ceramic, SMD, 1.0pF, 25V, 0.25pF, C0G, 0201	0	C26	201	1.0 pF
9	CAP, Ceramic, SMD, 0.5pF, 25V, 0.1pF, C0G, 0201	1	C24	201	0.5 pF
10	CAP, Ceramic, SMD, 0.7pF, 25V, 0.1pF, C0G, 0201	1	C25	201	0.7 pF
11	XTAL, SMD, 24 MHz, 10 ppm	1	Y1	XTAL_2p0x1p6	24.000MHz
12	IC, Zigbee, EM3585, 24MHz, 512k Flash, 32k RAM, SoC	1	U2	QFN48	EM3585
13	FEM 2.4GHz PA, Tx filtering, LNA w/bypass DPDT switch	1	U1	20QFN	RF6525
14	Inductor, 3.0 nH, 0.1 nH, 450mA, 250mOhms, 0201	1	L5	201	3.0nH
15	Inductor, 3.3 nH, 0.1 nH, 450mA, 250mOhms, 0201	1	L3	201	3.3nH
16	Inductor, 1.8 nH, 0.1 nH, 600mA, 150mOhms, 0201	1	L2	201	1.8nH
17	Inductor, 6.2 nH, 5%, 300mA, 600mOhms, 0201	1	L1	201	6.2nH
18	Inductor, 5.1 nH, 5%, 350mA, 400mOhms, 0201	1	L4	201	5.1nH
19	Inductor, 4.7 nH, 3%, 350mA, 400mOhms, 0201	1	C28	201	4.7nH
20	Inductor, 3.9 nH, 0.1 nH, 170mA, 450mOhms, 0201	1	L7	201	3.9nH
21	Inductor, 2.0 nH, 0.1 nH, 600mA, 150mOhms, 0201	1	L6	201	2.0nH
22	SHIELD, RF, 1 PC, CUSTOM, LAIRD, CRS, TIN PLATED	1	SH2	LT14CF100x	LT14CF1002
23	ANTENNA, 2.4GHz Antenna, PCB Meander Antenna	0	A1	INVERTED-F	2.4GHz Antenna
24	CONN, Ketra_ZB_Mod_Conn, PCB ARTWORK	0	J1	Ketra_ZB_Mod_Conn_Cast	Ketra Zigbee Module PCB Artwork
25	SHIELD, RF, COVER, 2 of 2 PC, LAIRD, CRS, TIN PLATED	0	SH1	NA	LT14CF1001C
26	PCB, ZIGBEE MODULE, RFMD FEM, RFOUT	1	PCB1	ZICM357SPx	165-000022-06
27	RES, Thick Film, 10 ohms, 5%, 1/16 W, SMD, 0402	1	R1	402	10 ohms
28	RES, Thick Film, 1ohms, 5%, 1mW, 0402	1	R2	402	1

	Title			
	<b>Ketra VER006 2.4GHz ZigBee Module – Bill of Materials</b>			
	Size	Ketra Part Number		Rev
	<b>A</b>	<b>830-000057-xx</b>		<b>A</b>
Date			Sheet	
<b>July 20, 2015</b>			<b>2 of 2</b>	