

BOM 423S06 Up-Converter MAGNUM_ARK rev_E.txt
 Bill of Material for 423S06 Up-Converter MAGNUM_ARK rev_E
 On 3/06/2010 at 14.30.20

Comment	Pattern	Quantity	Components
0 Resistor	0603R	19	R1, R10, R20, R25, R29, R32 5 % 1/16W R41, R43, R54, R67, R70, R71 R72, R81, R82, R94, R100 R106, R113
10 - 1W Resistor	2512	1	R167 5 % 1W
100 Resistor	0603R	3	R34, R97, R98 5 % 1/16W
100K Resistor	0603R	3	R122, R123, R124 5 % 1/16W
100n Ceramic Capacitor	0603R	59	C9, C10, C11, C17, C20, C22 Multilayer C24, C25, C39, C41, C43, C46 C51, C53, C54, C55, C57, C59 C61, C75, C77, C80, C94, C110 C112, C116, C117, C119, C126 C128, C129, C130, C132, C134 C139, C141, C142, C148, C149 C151, C153, C154, C156, C157 C159, C160, C161, C163, C166 C167, C168, C170, C173, C174 C175, C178, C179, C180, C181
100nH	0603R	4	L15, L16, L17, L18 SMD Inductor
100p Ceramic Capacitor	0603R	20	C32, C34, C35, C36, C52, C56 Multilayer C58, C60, C73, C74, C76, C79 C96, C97, C111, C118, C127 C131, C140, C145
100u-16V Electrolytic Capacitor Type D	TANT-D	1	C14 Tantalum
100u-6V3 Ceramic Capacitor	1210	3	C93, C103, C169 Multilayer
10K Resistor	0603R	5	R33, R45, R147, R149, R150 5 % 1/16W
10K Bourns 3224W-1-103E - TRIM0120	VR10	1	RV1 Trimmer
10n Ceramic Capacitor	0603R	14	C15, C16, C26, C30, C49, C89 Multilayer C106, C114, C122, C124, C125 C135, C138, C143
10p Ceramic Capacitor	0603R	11	C3, C5, C6, C7, C8, C18, C21 Multilayer
10u-16V Ceramic Capacitor	1206	1	C23, C50, C69, C70 Multilayer C162
10u-16V Electrolytic Type B	TANT-B	4	C62, C109, C164, C165 Tantalum
10u-6V3 Ceramic Capacitor	0603R	4	C2, C12, C176, C177 Multilayer
110 Resistor	0603R	2	R76, R80 5 % 1/16W
120nH	0603R	2	L1, L2 SMD Inductor
12K Resistor	0603R	1	R11 5 % 1/16W

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12p Ceramic Capacitor	0603R	2	C147, C150	Multilayer
150 Resistor	0603R	5	R19, R59, R109, R115, R119	5 % 1/16W
150nH	0603R	2	L3, L4	SMD Inductor
15K Resistor	0603R	10	R118, R126, R129, R131, R133	5 % 1/16W
18 Resistor	0603R	10	R134, R135, R136, R137, R138 R22, R24, R37, R50, R52, R53	5 % 1/16W
180K Resistor	0603R	1	R77, R93, R95, R96 R13	5 % 1/16W
18K Resistor	0603R	3	R31, R44, R66	5 % 1/16W
1K Resistor	0603R	12	R14, R26, R28, R30, R42, R64	5 % 1/16W
1K6 Resistor	1206	1	R83, R84, R117, R125, R130 R132 R27	5% 1/4W
1M Resistor	0603R	1	R116	5 % 1/16W
1n Ceramic Capacitor	0603R	18	C27, C28, C29, C33, C47, C48	Multilayer
1p2 tek Ceramic TEMEX TEKELEC - COND1700	0603R	1	C63, C64, C66, C67, C68, C71 C72, C84, C88, C104, C105 C121 C100	Multilayer
1p5 tek Ceramic TEMEX TEKELEC - COND1701	0603R	2	C83, C102	Multilayer
1u Ceramic Capacitor	0603R	5	C37, C44, C78, C113, C137	Multilayer
1u-16V Electrolytic Capacitor Type A	TANT-A	1	C86	Tantalum
220 Resistor	0603R	2	R49, R102	5 % 1/16W
220K Resistor	0603R	1	R79	5 % 1/16W
220n Ceramic Capacitor	0603R	1	C152	Multilayer
220p Ceramic Capacitor	0603R	3	C13, C45, C99	Multilayer
220u -63V Electrolytic Capacitor 5,08 mm	RB.2/.4	1	C38	Radial
22K Resistor	0603R	1	R9	5 % 1/16W
27 Resistor	0603R	6	R48, R73, R103, R105, R110	5 % 1/16W
270 Resistor	0603R	6	R112 R85, R86, R87, R88, R89, R90	5 % 1/16W
27K Resistor	0603R	1	R78	5 % 1/16W
2p4 tek Ceramic TEMEX TEKELEC - COND1707	0603R	1	C87	Multilayer
2p7 tek Ceramic TEMEX TEKELEC -COND1708	0603R	2	C85, C90	Multilayer
32.768kHz Crystal watch A - QUAR0029	TC38H	1	Y2	Quarz
33 Resistor	0603R	1	R35	5 % 1/16W

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Resistor					
330	0603R	4	R8, R12, R16, R23	5%	1/16W
Resistor					
390nH	0603R	1	L8		SMD Inductor
39nH	0603R	2	L5, L6		SMD inductor
3K3	0603R	1	R5	5 %	1/16W
Resistor					
3K9	0603R	2	R40, R146	5 %	1/16W
Resistor					
3p3 tek	0603R	1	C82		Multilayer
Ceramic TEMEX TEKELEC - COND1703					
3p9 tek	0603R	1	C91		Multilayer
Ceramic TEMEX TEKELEC - COND1714					
4,7nH	0603R	2	L13, L14		SMD inductor
470K	0603R	1	R111	5 %	1/16W
Resistor					
470n	0603R	3	C146, C155, C158		Multilayer
Ceramic Capacitor					
470p	0603R	3	C1, C98, C108		Multilayer
Ceramic Capacitor					
47K	0603R	12	R51, R55, R104, R107, R120	5 %	1/16W
Resistor					
47n	0603R	4	R128, R140, R141, R142, R143 R144, R145 C115, C123, C133, C136		Multilayer
Ceramic Capacitor					
47u-6V3	1210	1	C65		Multilayer
Ceramic Capacitor					
49,9	0603R	4	R2, R3, R6, R18	5%	1/16W
Resistor					
4K7	0603R	6	R4, R7, R21, R121, R148, R151	5 %	1/16W
Resistor					
4n7	0603R	1	C4		Multilayer
Ceramic Capacitor					
4p3 tek	0603R	1	C92		Multilayer
Ceramic TEMEX TEKELEC - COND1716					
4p7	0603R	2	C171, C172		Multilayer
Ceramic Capacitor					
56	0603R	2	R46, R68	5 %	1/16W
Resistor					
560	0603R	1	R99	5 %	1/16W
Resistor					
56p	0603R	1	C95		Multilayer
Ceramic Capacitor					
5K6	0603R	1	R75	5 %	1/16W
Resistor					
6,8nH	0603R	2	L7, L11		SMD Inductor
68	0603R	2	R39, R101	5 %	1/16W
Resistor					
680p	0603R	1	C40		Multilayer
Ceramic Capacitor					
68p	0603R	1	C107		Multilayer
Ceramic Capacitor					
6n8	0603R	1	C42		Multilayer
Ceramic Capacitor					
6p8	0603R	1	C101		Multilayer
Ceramic Capacitor					
820	0603R	1	R17	5%	1/16W
Resistor					

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8K2 Resistor	0603R	1	R74	5 % 1/16W
AD8317CPZ	CP-8-1	3	IC10, IC15, IC18	1 MHz to
10GHz, 50 dB Log Detector Controller - AD8361ARMZ	MSOP8	4	IC5, IC17, IC19, IC21	LF to 2.5
GHZ ThruPwr Detector - ADF4350-BCPZ	CP-32-3	1	IC2	Analog
Devices - Wideband Synthesizer with Integrated VCO - ADL5330CPZ	CP-24	1	IC12	10MHz to
3GHz VGA with 60dB gain contr.range - ADuC7026BSTZ62-RL	LQFP80	1	IC23	Precision
an. uC 12-bit analog I/O , ARM7TDMI MCU - BAS516	0603D	17	D2, D3, D5, D6, D7, D8, D9	High speed
diode - DIOD0100			D10, D11, D12, D13, D14, D15 D16, D17, D18, D19	
BAT15 diode - DIOD0101	SOD323	1	D4	RF Schottky
BZT52C9V1-7-F	SOD123	1	DZ1	Zener diode
9V1 500mw - Coax. F	DIOD0140	6	Coax1, Coax2, Coax3, Coax4	Female
Coaxial Connector 45K201-400H3	- CONN0760		Coax5, Coax6	
CONN14X3 6C Male connector 90° 3 row 6 Coax	CONN14X3M-6C	1	P6	DIN41612
DS2703U	USOIC8	1	IC22	SHA-1
Battery pack authentication IC - DT1608C-333	DO1813	1	L12	SMD
Inductor-DT1608C - DT3316P-103-10	INDU0523	1	L9	SMD Inductor
DT3316P - DTC114EKA	SOT23	3	Q7, Q8, Q9	NPN Digital
transistor built-in resistors - IDC20M	IDC20	1	JP2	IDC20 male
connector for flat cable - JMP	CONN0403	1	JP1	Stripline
male 3 poles 2,54 mm	SIP3			
LMC6482AIM	S08	1	IC20	CMOS Rail to
Rail IN & OUT Op.Amp. - LMC6484AIM	S014	1	IC3	CMOS Rail to
Rail Input and output Operational Amplifier - LMC7101BIM5	SOT23-5	1	IC7	TLP Op.
Amplifier with Rail-to-Rail In and Out - LT1721CGN	SSOP16-N	1	IC16	Single
Supply 3V/5V Comparators Rail-to-Rail Out - LT1956EFE	TSSOP16FE	1	IC25	
High-voltage,1.5A, 500KHZ Step Down switch. reg. - LT5521EUF	QFN16	1	IC13	Very High
Linear Activity Mixer 3.7GHz - MABA007159	ETC4	2	T1, T3	RF 1:1
Transmission Line Transformer 4.5 3000 MHZ MA/COM- MABA-008639-TC41T7	ETC4	1	T4	E-Series RF
1:4 Transmission Line Transformer 6-1000 MHZ - MAX604CSA	S08	1	IC24	5V/3.3V or
Adj.,LDO, low IQ, 500mA Linear Reg. - MBRS360T3	CASE403	1	D1	Surface
Mount Schottky Power Rectifier 3A-60V - MGA-62563	SOT-363	1	IC14	Current Adj.
Low Noise Amplifier 3GHz - MIC5207-5.0BM5	SOT23-5	1	IC4	5V 180mA
Low Noise LDO Voltage Regulator - MMBT2222ALT1	SOT23	1	Q3	NPN Bipolar
transistor - TRAN0224				

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MMBT2907ALT1	SOT23	5	Q1, Q2, Q4, Q5, Q6	PNP Bipolar
Transistor - TRAN0225				
N.M.	0603R	11	C31, C81, C120, C144, R15	Multilayer
Ceramic Capacitor			R58, R91, R92, R108, R114	
			R127	
N.M.	1210	1	C19	Multilayer
Ceramic Capacitor				
N.M.	90SMX	1	Y1	Crystal
IQDLFA103S	CMS-90SMX-VRAC - QUAR0031			
N.M.	DO1813	1	L10	10uH Surface
mount DC-DC converter inductor-DO1813HC series				
N.M.	ETC4	1	T2	Matching
transformer - TRAS0036				
NFE61PT472	NFE61PT	2	FIL1, FIL2	LC combined
EMI FILTER NFE61PT472C1H9L - FILT0019				
RXE075	RAD0.2C	1	F1	Polyswitch
PTC Devices Tyco - FUSI0044				
SBP-6R4-997BP8A	SBP-6R4	1	U1	SGC
Technologies - 6 poles DR Filter 997 MHZ +-4 MHZ - FILT0066				
Sc30x50	Schermo_30x50	1	SCH1	Metal Screen
30x50 mm - MECC2153				
SCHERMO	SCHERMO1	1	SCH2	Metal
shielding can - MEC2152				
SMB	SMB-CS-S	1	P5	SMB Straight
Male Connector - CONN0200				
TPS3307-33D	S08	1	IC26	Triple
processor supervisor sense2 = 3.3V - CI0490				
TPS76801Q	TSSOP20	1	IC11	Fast
transient Response LDO Volt. Reg. 1A - CI0462				
TPS79933DDC	SOT23-5	1	IC1	Texas
Instruments - LDO Linear regulator 200mA ultra low noise - CI0543				