



Title:	MYSTIQUE -- RD-2690 400-628 DP to Dual Mode Tx
Document Number:	B0644-SCH-01A (revised 2/24/2017) Bill of Material

#	Qty	Fitted	Description	Manufacturer's part number	Manufacturer	Package	Part Reference	Part	Notes
1	1	YES	Micro-USB Type B Receptacle,	DX4R005J91R1500	JAE	Type B	CN301	CONN	
2	2	YES	MOLEX 47272-0001,	47272-0001	MOLEX	R A SMT	CN401, CN701	CONN	Org: 47272-0002
3	1	YES	RCJ-024,	RCJ-024	CUI	CON	CN501	CONN	
4	1	YES	UART (+5V TTL),	640456-4	Tyco Electronics	CON	CN502	CONN	
5	1	YES	I2C_SCL/SDA,	640456-4	Tyco Electronics	CON	CN503	CONN	
6	5	YES	10 uF, 10%	C3225X7R1C106K	TDK	C1210	C301, C302, C305, C306, C307	16 V CAP	
7	1	YES	4.7 uF, 10%	1210YD475KAT2A	AVX	C1210	C303	16 V CAP	
8	43	YES	100 nF, 10%	C0402C104K8RACTU	Kemet	C0402	C304, C308, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C501, C502, C504, C508, C509, C510, C511, C512, C513, C604, C609, C611, C614, C618, C619, C627, C628, C630, C701, C702, C703, C704, C705, C706, C707, C708, C711, C713, C715, C717, C718	10 V CAP	
9	9	YES	10 uF, 10%	C2012X7R1A106K	TDK	C0805	C309, C601, C608, C610, C612, C615, C616, C625, C631	10 V CAP	
10	3	YES	22 uF,	TAJA226K010RNJ	AVX	C3216	C411, C412, C712	10 V CAP	
11	3	YES	22 pF, 1%	C1005C0G1H220F	Kemet	C0402	C503, C505, C506	50 V CAP	
12	1	YES	100 uF, 20%	ECE-V1AA101WR	Panasonic	C6032	C507	10 V CAP	
13	5	YES	470 nF,	GRM155F51C474ZA01D	Murata	C0402	C602, C605, C613, C617, C626	16 V CAP	
14	3	YES	10 pF, 5%	C0402C100J5GACTU	Kemet	C0402	C620, C621, C629	50 V CAP	
15	1	YES	1 uF, 10%	C2012X7R1E105K	TDK	C0805	C624	25 V CAP	
16	1	YES	Green,	LTST-C191KGKT	Lite-On Inc.	LED0603	D301	LED	Org: LNJ308G8TRA
17	7	YES	ST-HSP061,	HSP061-4NY8	STMicroelectronics	4NY8	D401, D402, D403, D701, D702, D703, D704	ESD	
18	7	YES	Ferrite,	BLM18PG121SN1D	Murata Electronics	FB0603	FB301, FB401, FB603, FB604, FB607, FB608, FB701	IND	
19	2	YES	Ferrite,	742792023	Würth Electronics Inc	FB0805	FB302, FB304	IND	
20	1	YES	Ferrite,	2508053007Y3	Fair-Rite	FB0603	FB601	IND	
21	1	YES	1 Amp Slow,	0468001.NR	LITTLEFUSE	F1206	F301	FUSE	
22	2	YES	500mA,	429 005	LITTLEFUSE	F1206	F401, F701	FUSE	
23	1	DNP	500mA,	429 005	LITTLEFUSE	F1206	F402	FUSE	
24	1	YES	2.2 uH, 2.5A,	7440430022	Würth Electronics Inc	I7440	L301	IND	
25	1	YES	2.2 uH, 1.0A,	VLF3010AT-2R2M1R0	TDK	I3010	L302	IND	
26	4	NO	Mounting Hole,				MH301, MH302, MH303, MH304	MH	
27	1	YES	FDV301N,	FDV301N	Fairchild	SOT23	Q301	FET	
28	2	YES	20K, 5%			R0402	R306, R301	RES	
29	6	YES	10K, 5%			R0402	R302, R402, R406, R505, R527, R528	RES	
30	1	YES	560K, 1%			R0402	R303	RES	
31	1	DNP	10K, 5%			R0402	R304	RES	
32	3	YES	100K, 1%			R0402	R305, R307, R308	RES	
33	1	YES	330R, 5%			R0402	R309	RES	
34	1	YES	1K, 5%			R0402	R310	RES	
35	2	YES	47K, 5%			R0402	R705, R311	RES	

#	Qty	Fitted	Description	Manufacturer's part number	Manufacturer	Package	Part Reference	Part	Notes
36	6	YES	1M, 5%			R0402	R401, R404, R405, R407, R530, R704	RES	
37	11	YES	100K, 5%			R0402	R403, R410, R411, R412, R413, R414, R415, R416, R417, R713, R714	RES	
38	2	YES	20R, 5%			R0402	R408, R409	RES	
39	1	DNP	100R, 5%			R0402	R418	RES	
40	2	YES	249R, 1%			R0402	R526, R501	RES	
41	10	YES	4K7, 5%			R0402	R502, R503, R508, R509, R510, R513, R515, R516, R518, R520	RES	
42	1	YES	3K, 5%			R0402	R504	RES	
43	6	DNP	4K7, 5%			R0402	R511, R512, R514, R517, R519, R521	RES	
44	1	YES	4.70K, 5%			R0603	R522	RES	
45	1	YES	10R, 5%			R0603	R523	RES	
46	1	YES	180R, 1%			R0603	R524	RES	
47	1	YES	75R, 1%			R0603	R525	RES	
48	1	YES	1M, 5%			R0603	R703	RES	
49	2	YES	2K, 5%			R0402	R708, R709	RES	
50	1	YES	SW PUSHBUTTON,	PTS635SL50 LFS	C&K ITT	PTS635SL	SW501	SW	
51	1	YES	STBB1-APUR	STBB1-APUR	STMicroelectronics	DFN10	U301	IC	Org: STBB1PUR
52	1	YES	ST1S12XX,	ST1S12GR	STMicroelectronics	SOT23-5L	U302	IC	
53	1	YES	MX25V4006E (4Mb SPI Flash),	MX25V4006EM1I-13G	Macronix	8SOP	U502	IC	Org:M25P20-VMN6TPB
54	2	YES	SN74LVC1T45,	SN74LVC1T45DBVR	TI	PDSO-G6	U503, U504	IC	
55	1	YES	NC7SZ125,	SN74AHCT1G125DCK	TI	SC70	U505	IC	
56	1	YES	Mystique STDP2690 DP to DP++ ,	STDP2690	Kinetic Technologies	LFBGA8X8	U601	IC	
57	3	YES	STG719,	STG719	STMicroelectronics	SOT23-6L	U702, U704, U705	IC	
58	1	YES	27.00MHz,	ECS-270-20-33-TR	ECS Inc	ECX-32	Y501	XTAL	