



Title:	PUMA -- RD2-2900 DP1.4 to HDMI2.0a
Document Number:	B0688-RD2-2900 Revision: 03a (B) Bill of Materials

#	QTY	Description	Manufacturer PN	Description	Manufacturer	Reference	Notes
1	1	CONN HEADER VERT 4POS .100 TIN	640456-4	DP Aux and HPD	TE Connectivity	CN1	
2	1	HiDefMultimedia SM_RA_19pin w4-40 Flange	1747981-1	TYCO HDMI Receptacle, 1747981-1	TE Connectivity	CN2	
3	1	CONN RCPTDISPLAY PORT 20POS SMD	47272-0001	Standard DisplayPort Connector	Molex	CN3	
4	2	CONN RCPT MICRO USB TH SMD	476420001	USB Micro-B Receptacle	Molex	CN4, CN5	
5	1	CONN HEADER 8POS .100 STR 15AU	67996-208HLF	HDR_2X4	FCI	CN6	
6	1	CONN HEADER 3POS .100 STR 15AU	68001-203HLF	JP_1X3	FCI	JP4	
7	21	CAP CER 0.1UF 16V 10% X7R 0402 SMD	GCM155R71C104KA55D	0.1uF	Murata	C1, C4, C5, C9, C10, C15, C16, C19, C20, C24, C26, C27, C28, C30, C31, C33, C34, C35, C37, C40, C41, C42	
8	2	CAP CER 22UF 16V 10% X5R 0805 SMD	C2012X5R1C226K125AC	22uF	TDK	C2, C7	
9	1	CAP CER 2.2uF 10V 10% X7R 0603 SMD	GRM188R71A225KE15D	2.2uF	Murata	C3	
10	3	CAP CER 22PF 50V 1% NPO 0402 SMD	C1005C0G1H220F050BA	22pF	TDK	C6, C8, C11	
11	11	CAP CER 10UF 25V 10% X5R 0805 SMD	GRM21BR61E106KA73L	10uF	Murata	C12, C13, C14, C17, C18, C21, C22, C23, C25, C29, C38	
12	3	CAP CER 0.01uF 10V 10% X5R 0402 SMD	GRM155R61A103KA01D	0.01uF	Murata	C32, C36, C43	
13	1	CAP CER 4.7UF 25V 10% X5R 0805 SMD	GRM21BR61E475KA12L	4.7uF	Murata	C39	
14	3	DIODE SCHOTTKY 100V 0.2A	BAT41KFILM	Schottky Diode	STMicroelectronics	D1, D2, D3	
15	1	TVS DIODE 3VWM ST0201	ESDAVLC8-1BU2	ESD, 8.5V	STMicroelectronics	D5	
16	1	Green LED	LTST-C191KGKT	GREEN	LITE_ON	D8	
17	4	120 ohms @ 100MHz, 2A 0603 SMD	BLM18PG121SN1D	120 ohms @ 100MHz, 2A	Murata	FB1, FB2, FB3, FB4	
18	2	FUSE SLIM SLO-BLO 1A 63V SMD	0468001.NR	1A Slow	Littelfuse	F1,F3	
19	1	Fuse PTC Reset 24V .20A	1206L020YR	Fuse PTC Reset 24V .20A	Littelfuse	F2	
20	2	FIXED IND 3.3UH 4.1A 17.4 MOHM	RLF7030T-3R3M4R1	Power Inductor 3.3uH	TDK Corp	L1,L2	
21	1	INDUCTOR POWER 2.2UH 2.5A SMD	7440430022	2.2uH 2.5A	Würth Electronics	L3	
22	1	PCB, 6 layer, Bobcat RD3 Rev A		B0680-Rev A PCB		PCB1	
23	1	MOSFET N-CH 25V 220MA	FDV301N_NB9V005	FDV301N	Fairchild	Q1	
24	1	RES 249 ohm 1% 1/10W 0402 SMD	ERJ-2RKF2490X	249	Panasonic	R1	
25	4	RES 1M OHM 1/10W 5% 0402 SMD	ERJ-2GEJ105X	1M	Panasonic	R2, R8, R10, R11	
26	3	RES 2.2K OHM 1/10W 5% 0402 SMD	ERJ-2GEJ222X	2.2K	Panasonic	R3, R4, R16	
27	1	RES 27K OHM 1/10W 5% 0402 SMD	ERJ-2GEJ273X	27K	XXX	R5	
28	1	RES 47K OHM 1/10W 5% 0402 SMD	ERJ-2GEJ473X	47K	Panasonic	R27	
29	1	RES 100K OHM 1/10W 5% 0402 SMD	ERJ-2GEJ104X	100K	Panasonic	R12	
30	1	RES 20K OHM 1/10W 5% 0402 SMD	ERJ-2GEJ203X	20K	Panasonic	R13	
31	5	RES 10K OHM 1/10W 5% 0402 SMD	ERJ-2GEJ103X	10K	Panasonic	R15, R20, R24, R26, R31	
32	1	RES 162K OHM 1/10W 1% 0402 SMD	ERJ-2RKF1623X	162K	Panasonic	R21	
33	1	RES 330 OHM 1/10W 5% 0402 SMD	ERJ-2GEJ331X	330R	Panasonic	R22	
34	2	RES 52.3K OHM 1/10W 1% 0402 SMD	ERJ-2RKF5232X	52.3K	Panasonic	R23, R29	
35	2	RES 1K OHM 1/10W 5% 0402 SMD	ERJ-2GEJ102X	1K	Panasonic	R25, R33	
36	1	RES 26.1K OHM 1/10W 1% 0402 SMD	ERJ-2RKF2612X	26.1K	Panasonic	R28	
37	1	RES 909K OHM 1/10W 1% 0603 SMD	ERJ-3EKF9093V	909.0K	Panasonic	R32	
38	1	RES 100K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1003V	100.0K	Panasonic	R34	

#	QTY	Description	Manufacturer PN	Description	Manufacturer	Reference	Notes
39	8	RES SMD 8.2 OHM 5% 1/20W 0201	ERJ-1GEJ8R2C	8.2 OHM	Panasonic	R35, R36, R37, R38, R39, R40, R41, R42	
40	1	SWITCH TACTILE SPST-NO 0.05A 12V	PTS635SL50LFS	TACT MOM	C&K ITT	SW1	
41	1	Supplied Part		MCDP2900	Kinetic Technologies	U1	
42	1	IC FLASH 8MBIT 80MHZ	MX25V8035FM1I	IC FLASH 8MBIT 104MHZ 8SOIC	Macronix	U2	
43	2	IC REG BUCK SYNC 1.5A DFN6	ST1S06PUR	ST1S06PUR	STMicroelectronics	U4, U6	
44	1	IC USB FS SERIAL UART 32-QFN	FT232RQ	FT232RQ	FTDI	U5	
45	1	IC REG BUCK BOOST SYNC ADJ	STBB1-APUR	STBB1-APUR	STMicroelectronics	U7	
46	1	CRYSTAL 27MHZ 20PF SMD	ECS-270-20-33-TR	27.000MHz Crystal	ECS Inc	Y1	
47	1	RES 510 OHM 1/10W 5% 0402 SMD	ERJ-2GEJ511X	510	Panasonic	R44	
48	1	RES 20K OHM 1/10W 5% 0402 SMD	ERJ-2GEJ203X	20K	Panasonic	R6	
49	3	RES 20 OHM 1/10W 5% 0402 SMD	ERJ-2GEJ200X	20	Panasonic	R45, R46, R47	
50	1	TEST POINT PC MINI .040" RED	5000	TX	Keystone Elect	TP302	
51	1	TEST POINT PC MINI .040" RED	5000	RX	Keystone Elect	TP303	
52	1	TEST POINT PC MINI .040" RED	5000	GND	Keystone Elect	TP304	
53	1	CONN HEADER VERT 4POS .100 TIN	640456-4	I2C	TE Connectivity	CN9	
54	4	0.50pF ±0.05pF 25V Ceramic Capacitor COG, NP0 0201 (0603 Metric)	C0603C0G1E0R5W	0.5p	TDK	C313, C314, C315, C316	
55	1	CONN HEADER 3POS .100 STR 15AU	68001-203HLF	JP_1X3	FCI	JP3	
56	1	TEST POINT PC MINI .040" RED	5000	EX_RESETN_CONT1	Keystone Elect	TP1	
57	1	TEST POINT PC MINI .040" RED	5000	EX_RESETN_CONT2	Keystone Elect	TP306	
58	1	SHUNT JUMPER .1" BLACK GOLD	969102-0000-DA	Shunt Jumper for JP3 (between Power Source and USB)	3M		
59	1	SHUNT JUMPER .1" BLACK GOLD	969102-0000-DA	Shunt Jumper for JP4 (between Pin 1 (OD) and Pin 2)	3M		
60	4	Common Mode Filters / Chokes 12ohms 1.0ohms 8.5GHz 0.1A	445-9333-1-ND	TCM0605S-120-2P	Digikey	L601, L602, L603, L604	