



Title:	VEGA -- RD1-4020 DPRx	
Document Number:	B0546-BOM-01A5	Bill Of Materials

#	Qty	Description	Part Number	Manufacturer	PCB Footprint	Part Reference	Notes
0	1	Bare PCB	400-530 Rev.A		4 Layers, Blue, 0.062 inches		
Connectors							
1	1	Power Jack +12V, 4A, 2pin	31-156-0	MODE	CON\MODE\31-156-0	CN301	
2	1	Conn DisplayPort-20	47272-0001	Molex	MOLEX\SD-47272-001	CN501	
3	1	34Pins Vertical Header	5103308-7	Tyco		CN401	
4	1	HDR_4_Vert_Frctn Lock	640456-4	AMP	CON\FL-04\REV	CN403	
5	1	HDR_3_Vert_Frctn Lock	640456-3	AMP	CON\FL-03	CN701	
6	1	RCJ-024	RCJ-024	CUI	CUI\RCJ-02X	CN404	
7	1	52Pin-1.27 Skt R/A Brd-Brd	FX2-52S-1.27DSL	Hirose Electronic Co.	HIROSE\FX2-52S-1.27DSL	CN402	
8	1	Conn DVI-I	74320 - 1004	Molex	MOLEX\SD-74320-001	CN1101	
Caps							
9	2	22uF 16V CAP ELECT FC SMD	EEE-FC1C220R	Panasonic - ECG	PANASONIC\FC_C	C301, C405	
10	1	100uF 10V CAP TANT LOW ESR SMD	TPMY107M010R0045	AVX	CAPTAN\D7343	C302	
11	24	22uF 10V CAP TANT LOW ESR SMD	TAJA226K010RNJ	AVX	CAPTAN\A3216	C305, C306, C307, C309, C310, C311, C315, C318, C319, C406, C702, C801, C803, C813, C816, C818, C823, C905, C912, C919, C1007, C1013, C1017, C1101	
12	1	1uF 35V CAP CERAMIC X7R 0805	GMK212B7105KG-T	Taiyo Yuden	CAP\0805	C304	
13	61	.1uF 16V CAP CERAMIC X7R 0402	C0402C104K4RAC7867	Kemet	CAP\0402	C404, C501, C502, C701, C703, C704, C707, C802, C804, C805, C806, C807, C808, C809, C811, C814, C817, C819, C820, C821, C822, C824, C825, C826, C827, C901, C902, C903, C904, C906, C907, C908, C909, C910, C911, C913, C914, C915, C916, C917, C918, C921, C926, C1001, C1002, C1003, C1004, C1005, C1006, C1008, C1009, C1010, C1011, C1012, C1014, C1015, C1016, C1018, C1019, C1021, C1025	
14	8	.1uF 16V CAP CERAMIC X7R 0603	C0603C104J4RAC	Kemet	CAP\0603	C303, C401, C403, C504, C505, C506, C507, C710	
15	5	.01uF 50V CAP CERAMIC X7R 0603	C0603C103K5RACTU	Kemet	CAP\0603	C308, C312, C313, C316, C317	
16	2	.01uF 16V CAP CERAMIC X7R 0402	C0402C103K4RACTU	Kemet	CAP\0402	C812, C815	
17	2	10pF 50V CAP CERAMIC NP0 0603	C0603C100J5GACTU	Kemet	CAP\0603	C705, C706	
18	4	100pF 50V CAP CERAMIC NP0 0402	C0402C101J5GACT	Kemet	CAP\0402	C920, C925, C1020, C1024	
19	4	2.2uF 10V CAP TANT LOW ESR SMD	TAJA225K010RNJ	AVX	CAPTAN\A3216	C922, C927, C1022, C1026	
20	4	10uF 10V CAP TANT LOW ESR SMD	TAJA106K010RNJ	AVX	CAPTAN\A3216	C923, C924, C1023, C1027,	
21	1	47pF 50V CAP CERAMIC NP0 0603	C0603C470J5GACTU	Kemet	CAP\0603	C708	
Diodes							
22	1	High junction temperature transil	SMM4F18A-TR	STMicroelectronics,	SMA	DZ301	
23	1	LED Red 0603 SMT	BR1111C-TR	Stanley Electric	LED\0603	D301	
24	1	Schottky Power Rectifier	MBRA210LT3	ON Semiconductor	SMA	DZ401	
25	4	ESD protection diodes	HDMIULC6-4SC6	STMicroelectronics,		ESD501, ESD503, ESD504, ESD505	
Ferrites, Fuses							
26	2	Fuse 5.0A 32V FAST	0466005.NR	Littelfuse	LITTLEFUSE\1206	F301, F1101	
27	18	4.5A 31 ohms@100MHz	HI0805Q310R-10	Steward	FERRITEBEAD\0805	FB301, FB302, FB303, FB305, FB801, FB802, FB803, FB901, FB902, FB903, FB904, FB905, FB906, FB1001, FB1002, FB1003, FB1004	
Headers							

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28	4	1x1 Loop Header 0.1"	151-203-RC	KOBICONN	KOBICONN/151-203-RC	GND301, GND302, GND303, GND304	
Inductors							
29	1	3.3 uH 20%	P0751.332NLT	Pulse	BITECH/HM76-30150JLF	L301	
Transistors							
30	1	10K Biased NPN SOT-523	DDTC114TUA	Diodes Inc	SOT-323/BEC	Q401	
31	4	BSN20, N-CH MOSFET	BSN20, 215	NXP	SOT-23/123	Q1101, Q1102	
Resistors							
32	1	105K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1053V	Panasonic - ECG	RES\0603	R301	
33	1	20.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF2002V	Panasonic - ECG	RES\0603	R303	
34	4	100K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1003V	Panasonic - ECG	RES\0603	R304, R308, R313, R518	
35	1	RES 26.1K OHM 1/10W 1% 0603 SMD	ERJ-3EKF2612V	Panasonic - ECG	RES\0603	R314	
36	2	348 OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF3480V	Panasonic - ECG	RES\0603	R901, R1001	
37	2	20.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF2002V	Panasonic - ECG	RES\0603	R904, R1004	
38	2	49.9 OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF49R9V	Panasonic - ECG	RES\0603	R908, R1008	
39	2	6.20K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX6201	Rohm	RES\0603	R1102, R1103	
40	64	22.0 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX22R0	Rohm	RES\0603	R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681	
41	4	1.00M OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1004V	Panasonic - ECG	RES\0603	R501, R515, R516, R517	
42	26	10.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1002V	Panasonic - ECG	RES\0603	R307, R311, R315, R401, R503, R702, R703, R706, R902, R905, R906, R907, R909, R911, R912, R913, R1002, R1005, R1006, R1007, R1009, R1010, R1012, R1013, R1101, R1104	
42+1	1	20.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF2002V	Panasonic - ECG	RES\0603	R1105	
43	10	0 OHM RES 1/10W 5% 0603 SMD	ERJ-3GEY0R00V	Panasonic - ECG	RES\0603	R310, R312, R413, R414, R707, R713, R714, R1107, R1108	
44	1	180 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX1800	Rohm	RES\0603	R415	
45	1	75.0 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX75R0	Rohm	RES\0603	R416	
46	1	240 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2400	Rohm	RES\0603	R701	
47	14	4.70K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX4701	Rohm	RES\0603	R411, R601, R602, R604, R605, R607, R608, R611, R613, R704, R705, R709, R715, R716	
48	1	2.70K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2701	Rohm	RES\0603	R402	
49	1	RES 17.4K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1742V	Panasonic - ECG	RES\0603	R306	
50	1	RES 14.0K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1402V	Panasonic - ECG	RES\0603	R309	
51	3	RES 330 OHM 1/10W 1% 0603 SMD	MCR03EZPFX3300	Rohm	RES\0603	R302	
52	11	RES 10.0 OHM 1/16W 1% 0402 SMD	ERJ-2RKF10R0X	Panasonic - ECG	RES\0402	R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514	
Switches							
53	1	DPDT Slide Switch	1-1437575-7	TYCO		SW401	
54	1	TACT MOM 130GF H=5MM	PTS635SL50 LFS	C&K ITT	SW\IC&K\PTS635SL	SW402	
ICs							
55	1	Switching Reg. Adj.	ST1S10PUR	STMicroelectronics,	ST/DFN8	U301	
56	2	Linear Reg. Adj.	L6935	STMicroelectronics,	ST/VFQFPN20	U303, U304	
57	1	Linear Reg. Adj.	L6933H1.2	STMicroelectronics,	SOIC127P600X175-8N	U302	
58	1	SCHMITT-TRG INV	74V1G14STR	STMicroelectronics,	SOT-23-5L	U703	
59	1	Hex Inverter	74LVX04MTCX	Fairchild Semiconductor	TSSOP14	U401	
60	1	VEGA Rx	STDP4020	Kinetic Technologies	LFPGA-164	U601	
61	1	2M FLASH	M25P20-VMN6TPB	Numonyx	SOIC127P790/600-8NX-SK	U702	
62	2	DVI Tx	SI1712CLU	Silicon Image	TSQFP50P1600X2200X160-129N	U901, U1001	
Crystal							
63	1	27MHz Crystal	ABM3-27.000MHZ-B2-T	ABRACON	ABRACON/ABM3	X701	
Do not Populate							

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64	1	EEPROM 256x8	M24C02-WMN6P	STMicroelectronics,	SOIC08	U701	
65	1					U902	
66	9	0R				R404, R412, R502, R910, R1011, R720, R712, R721, R1106	
67	16	10K/4.7K				R403, R603, R606, R609, R610, R612, R691, R692, R693, R710, R711, R903, R921, R1003, R1021, R1109	
68	2	1x1 Header		Sullins	TP\60\40	TP401, TP402	
69	1					FB306	
70	1					R305	
71	2					R708, R718	
72	1					D701	
73	1					Q701	
74	1					U704	
75	4	Mounting Hole			MTG125	MH301, MH302, MH303, MH304	