



Title:	VEGA, STDP4020 Rx RD2	
Document Number:	B0550-BOM-01C	Bill Of Materials

#	Qty	Description	Part Number	Manufacturer	PCB Footprint	Part Reference	Notes
0	1	Bare PCB	400-534 Rev.C		4 Layers, Green, 0.062 inches		
<b>Connectors</b>							
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 HEADER 14POS 1.25MM VRT SMD	53398-1471	Molex	Molex\53261-1490-SMT	CN903	
9	1	51Pin LVDS Header	FI-RE51S-HF	JAE	JAE\FI-RE51S-HF	CN902	
10	1	41Pin LVDS Header	FI-RE41S-HF	JAE	JAE\FI-RE41S-HF	CN901	
<b>Caps</b>							
11	4	22uF 16V CAP ELECT FC SMD	EEE-FC1C220R	Panasonic - ECG	PANASONIC\FC_C	C301, C315, C405, C901	
12	1	100uF 10V CAP TANT LOW ESR SMD	TPMY107M010R0045	AVX	CAPTAN\D7343	C302	
13	15	22uF 10V CAP TANT LOW ESR SMD	TAJA226K010RNJ	AVX	CAPTAN\A3216	C305, C306, C307, C309, C310, C311, C317, C406, C702, C801, C803, C813, C816, C818, C823	
14	1	1uF 35V CAP CERAMIC X7R 0805	GMK212B7105KG-T	Taiyo Yuden	CAP\0805	C304	
15	1	CAP CER 4.7UF 25V X5R 20% 0805	08053D475MAT2A	AVX	CAP\0805	C316	
16	27	.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, C902, C903	
17	7	.1uF 16V CAP CERAMIC X7R 0603	C0603C104J4RAC	Kemet	CAP\0603	C303, C401, C403, C504, C505, C506, C507	
18	3	.01uF 50V CAP CERAMIC X7R 0603	C0603C103K5RACTU	Kemet	CAP\0603	C308, C312, C313	
19	2	.01uF 16V CAP CERAMIC X7R 0402	C0402C103K4RACTU	Kemet	CAP\0402	C812, C815	
20	2	10pF 50V CAP CERAMIC NP0 0603	C0603C100J5GACTU	Kemet	CAP\0603	C705, C706	
21	1	47pF 50V CAP CERAMIC NP0 0603	C0603C470J5GACTU	Kemet	CAP\0603	C708	

#	Qty	Description	Part Number	Manufacturer	PCB Footprint	Part Reference	Notes
<b>Diodes</b>							
22	1	High junction temperature transil	SMM4F18A-TR	STMicroelectronics,	SMA	DZ301	
23	2	Fast Rect 50V/2A	ES2AA-13-F	Diodes Inc	SMA	DZ302, DZ303	
24	1	LED Red 0603 SMT	BR1111C-TR	Stanley Electric	LED\0603	D301	
25	4	ESD protection diodes	HDMIULC6-4SC6	STMicroelectronics,		ESD501, ESD503, ESD504, ESD505	
<b>Ferrites, Fuses</b>							
26	1	Fuse 5.0A 32V FAST	0466005.NR	Littelfuse	LITTLEFUSE\1206	F301	
27	1	Fuse 3.0A 32V FAST	0466003.NR	Littelfuse	LITTLEFUSE\1206	F901	
28	5	4.5A 31 ohms@100MHz	HI0805Q310R-10	Steward	FERRITEBEAD\0805	FB301, FB302, FB801, FB802, FB803	
<b>Headers</b>							
29	4	1x1 Loop Header 0.1"	151-203-RC	KOBICONN	KOBICONN\151-203-RC	GND301, GND302, GND303, GND304	
30	2	3 pins Header, THRU Holes	PRPN031PAEN	Sullins	HD3X1/2MM	JP901, JP902	
<b>Inductors</b>							
31	2	3.3 uH 20%	P0751.332NLT	Pulse	BITECH/HM76-30150JLF	L301, L302	
<b>Transistors</b>							
32	1	10K Biased NPN SOT-523	DDTC114TUA	Diodes Inc	SOT-323/BEC	Q401	
33	3	TRANS SS GP NPN 40V SOT23	MMBT3904LT1	ON Semiconductor	ONSEMI\SOT23	Q902, Q903, Q904	
34	1	TRANS GP PNP 20V SOT23	PBSS5120T,215	NXP Semiconductor		Q901	
<b>Resistors</b>							
35	2	105K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1053V	Panasonic - ECG	RES\0603	R301, R312	
36	2	20.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF2002V	Panasonic - ECG	RES\0603	R303, R313	
37	3	100K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1003V	Panasonic - ECG	RES\0603	R304, R308, R530	
38	4	1.00M OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1004V	Panasonic - ECG	RES\0603	R501, R515, R516, R517	
39	15	10.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1002V	Panasonic - ECG	RES\0603	R307, R311, R401, R503, R702, R703, R706, R906, R902, R907, R908, R912, R913, R922, R932	
40	10	0 OHM RES 1/10W 5% 0603 SMD	ERJ-3GEY0R00V	Panasonic - ECG	RES\0603	R310, R412, R413, R414, R421, R422, R707, R713, R714, R928	
41	1	180 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX1800	Rohm	RES\0603	R415	
42	1	75.0 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX75R0	Rohm	RES\0603	R416	
43	1	240 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2400	Rohm	RES\0603	R701	
44	16	4.70K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX4701	Rohm	RES\0603	R411, R601, R602, R604, R607, R608, R611, R613, R615, R641, R643, R705, R710, R711, R715, R716	
45	3	2.20K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2201	Rohm	RES\0603	R925, R909, R910	
46	1	2.70K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2701	Rohm	RES\0603	R402	
47	1	470 OHM RES 1/10W 1% 0603 SMD	9C06031A4700FKHFT	Yageo	RES\0603	R919	
48	1	RES 0.0 OHM 1/16W 5% 0402 SMD	CRCW04020000Z0ED	Vishay/Dale	RES\0402	R320	
49	1	RES 17.4K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1742V	Panasonic - ECG		R306	
50	1	RES 14.0K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1402V	Panasonic - ECG		R309	
51	2	RES 330 OHM 1/10W 1% 0603 SMD	MCR03EZPFX3300	Rohm		R302, R923	
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	

#	Qty	Description	Part Number	Manufacturer	PCB Footprint	Part Reference	Notes
<b>Trimming Potentiometer</b>							
53	1	25K OHM TRIMPOT 6MM SQ SMD	3361P-1-253GLF	Bourns	BOURNS/3361P	VR901	
<b>Switches</b>							
54	1	DPDT Slide Switch	1-1437575-7	TYCO		SW401	
55	14	Switch SPDT SM	CJS-1200TA	Copal Electronics	CJS/1200A1	SW901	
56	1	TACT MOM 130GF H=5MM	PTS635SL50 LFS	C&K ITT	SW/C&K/PTS635SL	SW402	
<b>ICs</b>							
57	1	Switching Reg. Adj.	ST1S10PUR	STMicroelectronics,	ST/DFN8	U301	
58	1	Switching Reg. Adj.	ST1S10PHR	STMicroelectronics,	ST/SO8	U304	
59	1	Linear Reg. Adj.	L6935	STMicroelectronics,	ST/VFQFPN20	U303	
60	1	Linear Reg. Adj.	L6933H1.2	STMicroelectronics,	SOIC127P600X175-8N	U302	
61	1	SCHMITT-TRG INV	74V1G14STR	STMicroelectronics,	SOT-23-5L	U703	
62	1	Hex Inverter	74LVX04MTCX	Fairchild Semiconductor	TSSOP14	U401	
63	1	VEGA Rx	STDP4020	Kinetic Technologies	LFPGA-164	U601	
64	1	2M FLASH	M25P20-VMN6TPB	Numonyx	SOIC127P790/600-8NX-SK	U702	
65	1	EEPROM 256x8	M24C02-WMN6P	STMicroelectronics,	SOIC08	U701	
<b>Crystal</b>							
67	1	27MHz Crystal	ABM3-27.000MHZ-B2-T	ABRACON	ABRACON/ABM3	X701	
<b>Do not Populate</b>							
68	9	0R				R305, R404, R405, R407, R409, R420, R423, R502, R712	
69	27	10K/4.7K				R403, R603, R605, R606, R609, R610, R612, R616, R617, R630, R632, R634, R636, R639, R640, R642, R644, R646, R704, R901, R914, R915, R916, R918, R920, R921, R931	
70	2	2.2K				R905	
71	6	1x1 Header		Sullins	TP\60\40	TP401, TP402, TP901, TP902, TP903, TP904	
72	4	Mounting Hole			MTG125	MH301, MH302, MH303, MH304	
73	1	47K				R903	
74	7					R631, R633, R635, R637, R638, R645, R648	