



Title:	VEGA -- RD2-4028 DPTx
Document Number:	B0551-BOM-01C <span style="float: right;">Bill Of Materials</span>

#	Qty	Description	Part Number	Manufacturer	PCB Footprint	Part Reference	Notes
0	1	Bare PCB	400-535 Rev.C		4 Layers, Red, 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	CN801	
3	1	34Pins Vertical Header	5103308-7	Tyco		CN901	
4	3	HDR_4_Vert_Frctn Lock	640456-4	AMP	CON\FL-04\REV	CN602, CN603, CN902	
5	1	HDR_3_Vert_Frctn Lock	640456-3	AMP	CON\FL-03	CN601	
6	1	RCJ-024	RCJ-024	CUI	CUI\RCJ-02X	CN904	
7	1	52Pin-1.27 Skt R/A Brd-Brd	FX2-52P-1.27DSL	Hirose Electronic Co.	HIROSE\FX2-52P-1.27DSL	CN903	
8	1	51Pin LVDS Header	FI-RE51S-HF	JAE	JAE\FI-RE51S-HF	CN402	
9	1	41Pin LVDS Header	FI-RE41S-HF	JAE	JAE\FI-RE41S-HF	CN401	
<b>Caps</b>							
11	2	22uF 16V CAP ELECT FC SMD	EEE-FC1C220R	Panasonic - ECG	PANASONIC\FC_C	C301, C903	
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, C602, C701, C704, C711, C714, C719, C724, C727, C904	
14	1	1uF 35V CAP CERAMIC X7R 0805	GMK212B7105KG-T	Taiyo Yuden	CAP\0805	C304	
15	38	.1uF 16V CAP CERAMIC X7R 0402	C0402C104K4RAC7867	Kemet	CAP\0402	C601, C603, C610, C612, C613, C615, C616, C702, C703, C705, C706, C707, C708, C709, C710, C712, C715, C716, C717, C718, C720, C721, C722, C723, C725, C726, C728, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C902	
16	6	.1uF 16V CAP CERAMIC X7R 0603	C0603C104J4RAC	Kemet	CAP\0603	C303, C811, C812, C813, C814, C901	
17	4	.01uF 50V CAP CERAMIC X7R 0603	C0603C103K5RACTU	Kemet	CAP\0603	C308, C312, C313, C905	
18	2	.01uF 16V CAP CERAMIC X7R 0402	C0402C103K4RACTU	Kemet	CAP\0402	C713, C729	
19	2	10pF 50V CAP CERAMIC NP0 0603	C0603C100J5GACTU	Kemet	CAP\0603	C604, C607	
20	1	47pF 50V CAP CERAMIC NP0 0603	C0603C470J5GACTU	Kemet	CAP\0603	C611	
<b>Diodes</b>							
21	1	High junction temperature transil	SMM4F18A-TR	STMicroelectronics,	SMA	DZ301	
22	2	Fast Rect 50V/2A	ES2AA-13-F	Diodes Inc	SMA	DZ302, DZ303	
23	1	LED Red 0603 SMT	BR1111C-TR	Stanley Electric	LED\0603	D301	
24							
25	4	ESD protection diodes	HDMIULC6-4SC6	STMicroelectronics,		ESD801, ESD802, ESD803, ESD804	
<b>Ferrites, Fuses</b>							
26	2	Fuse 5.0A 32V FAST	0466005.NR	Littelfuse	LITTLEFUSE\1206	F301, F801	
27	6	4.5A 31 ohms@100MHz	HI0805Q310R-10	Steward	FERRITEBEAD\0805	FB301, FB302, FB701, FB702, FB703, FB704	
<b>Headers</b>							
28	4	1x1 Loop Header 0.1"	151-203-RC	KOBICONN	KOBICONN\151-203-RC	GND301, GND302, GND303, GND304	

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<b>Inductors</b>							
29	1	3.3 uH 20%	P0751.332NLT	Pulse	BITECH/HM76-30150JLF	L301	
<b>Transistors</b>							
30	1	10K Biased NPN SOT-523	DDTC114TUA	Diodes Inc	SOT-323/BEC	Q901	
<b>Resistors</b>							
31	1	105K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1053V	Panasonic - ECG	RES0603	R301	
32	1	20.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF2002V	Panasonic - ECG	RES0603	R303	
33	2	100K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1003V	Panasonic - ECG	RES0603	R304, R308	
34	2	1.00M OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1004V	Panasonic - ECG	RES0603	R814, R815	
35	8	10.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1002V	Panasonic - ECG	RES0603	R307, R311, R602, R603, R613, R903, R909, R912,	
36	5	0 OHM RES 1/10W 5% 0603 SMD	ERJ-3GEY0R00V	Panasonic - ECG	RES0603	R910	
37	2	RES 100K OHM 1/10W 1% 0402 SMD	ERJ-2RFK1003X	Panasonic - ECG	RES0402	R802, R813	
38	1	75.0 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX75R0	Rohm	RES0603	R913	
39	1	240 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2400	Rohm	RES0603	R601	
40							
41	13	4.70K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX4701	Rohm	RES0603	R512, R514, R515, R502, R710, R711, R715, R716, R905	
42	1	2.70K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2701	Rohm	RES0603	R902	
43	1	RES 47.0K OHM 1/16W 1% 0402 SMD	RC0402FR-0747KL	Yageo	RES0402	R816	
44	1	RES 17.4K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1742V	Panasonic - ECG	RES0603	R306	
45	1	RES 14.0K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1402V	Panasonic - ECG	RES0603	R309	
46	1	RES 330 OHM 1/10W 1% 0603 SMD	MCR03EZPFX3300	Rohm	RES0603	R302	
47	11	RES 10.0 OHM 1/16W 1% 0402 SMD	ERJ-2RFK10R0X	Panasonic - ECG	RES0402	R801, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812	
<b>Switches</b>							
48	1	DPDT Slide Switch	1-1437575-7	TYCO		SW902	
49	1	TACT MOM 130GF H=5MM	PTS635SL50 LFS	C&K ITT	SW\C&K\PTS635SL	SW901	
<b>ICs</b>							
50	1	Switching Reg. Adj.	ST1S10PUR	STMicroelectronics,	ST/DFN8	U301	
51	1	Linear Reg. Adj.	L6935	STMicroelectronics,	ST/VFQFPN20	U303	
52	1	Linear Reg. Adj.	L6933H1.2	STMicroelectronics,	SOIC127P600X175-8N	U302	
53	1	SCHMITT-TRG INV	74V1G14STR	STMicroelectronics,	SOT-23-5L	U603	
54	1	IC HEX INVERTER UNBUFF 14-TSSOP	MM74HCU04MTCX	Fairchild Semiconductor	TSSOP14	U902	
55	1	VEGA Tx	STDP4028	Kinetic Technologies	LFBGA-164	U601	
56	1	2M FLASH	M25P20-VMN6TPB	Numonyx	SOIC127P790/600-8NX-SK	U602	
<b>Oscillator/Crystal</b>							
57	1	27MHz Crystal	ABM3-27.000MHZ-B2-T	ABRACON	ABRACON/ABM3	X601	
<b>Do not Populate</b>							
58	8	0R				R305, R450, R451, R607, R620, R621, R904, R908	
59	24	100 Ohms				R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424	
60	15	4.7K				R501, R504, R505, R507, R510, R511, R513, R516, R520, R523, R524, R527, R528, R530, R901	revised on 10/29/2015 (R503->R504)
61	1					U401	
62	2					TP901, TP902	
63	2					R615, R616	
64	1					D601	
65	1					Q601	
66	1					C612	
67	1					U401	
68	4	Mounting Hole			MTG125	MH304	
69	1	OSC 27.000 MHZ 3.3V SMD	ECS-2033-270-BN	ECS Inc		U605	

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70	1					F401	
71	1	RES 22.0 OHM 1/10W 1% 0603 SMD	MCR03EZPFX22R0	Rohm	RES0603	R623	
72						DZ401	
73	6	4.7K resistor				R521, R522, R525, R526, R529, R531	