



Title:	VEGA -- RD1-4028 DPTx	
Document Number:	B0549-BOM-01A5	Bill Of Materials

#	Qty	Description	Part Number	Manufacturer	PCB Footprint	Part Reference	Notes
0	1	Bare PCB	400-533 Rev.A		4 Layers, Red, 0.062 inches		
<b>Connectors</b>							
1	1	Power Jack +12V, 4A, 2pin	31-156-0	MODE	CONMODE\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	CONFL-04\REV	CN602, CN603, CN902	
5	1	HDR_3_Vert_Frctn Lock	640456-3	AMP	CONFL-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	Conn DVI-I	74320 - 1004	Molex	MOLEX/SD-74320-001	CN401	
<b>Caps</b>							
9	2	22uF 16V CAP ELECT FC SMD	EEE-FC1C220R	Panasonic - ECG	PANASONIC/FC_C	C301, C903	
#	1	100uF 10V CAP TANT LOW ESR SMD	TPMY107M010R0045	AVX	CAPTAND7343	C302	
#	18	22uF 10V CAP TANT LOW ESR SMD	TAJA226K010RNJ	AVX	CAPTANIA3216	C305, C306, C307, C309, C310, C311, C401, C420, C425, C602, C701, C704, C711, C714, C719, C724, C727, C904	
#	1	1uF 35V CAP CERAMIC X7R 0805	GMK212B7105KG-T	Taiyo Yuden	CAP10805	C304	
#	68	.1uF 16V CAP CERAMIC X7R 0402	C0402C104K4RAC7867	Kemet	CAP10402	C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C421, C423, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, 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	
#	6	.1uF 16V CAP CERAMIC X7R 0603	C0603C104J4RAC	Kemet	CAP10603	C303, C811, C812, C813, C814, C901	
#	4	.01uF 50V CAP CERAMIC X7R 0603	C0603C103K5RACTU	Kemet	CAP10603	C308, C312, C313, C905	
#	4	.01uF 16V CAP CERAMIC X7R 0402	C0402C103K4RACTU	Kemet	CAP10402	C422, C424, C713, C729	
#	2	10pF 50V CAP CERAMIC NP0 0603	C0603C100J5GACTU	Kemet	CAP10603	C604, C607	
#	1	47pF 50V CAP CERAMIC NP0 0603	C0402C470J5GACTU	Kemet	CAP10603	C611	
<b>Diodes</b>							
#	1	High junction temperature transil	SMM4F18A-TR	STMicroelectronics,	SMA	DZ301	
#	1	Dual Diode, Comn Anode	BAV70	Zetex	SOT-23/123	DD401	
#	2	Fast Rect 50V/2A	ES2AA-13-F	Diodes Inc	SMA	DZ302, DZ303	
#	1	LED Red 0603 SMT	BR1111C-TR	Stanley Electric	LED\0603	D301	
#	1	Schottky Power Rectifier	MBRA210LT3	ON Semiconductor	SMA	DZ901	
#	4	ESD protection diodes	HDMIULC6-4SC6	STMicroelectronics,		ESD801, ESD802, ESD803, ESD804	
<b>Ferrites, Fuses</b>							
#	2	Fuse 5.0A 32V FAST	0466005.NR	Littelfuse	LITTLEFUSE\1206	F301, F801	

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#	9	4.5A 31 ohms@100MHz	HI0805Q310R-10	Steward	FERRITEBEAD\0805	FB301, FB302, FB401, FB402, FB403, FB701, FB702, FB703, FB704	
<b>Headers</b>							
#	4	1x1 Loop Header 0.1"	151-203-RC	KOBICONN	KOBICONN/151-203-RC	GND301, GND302, GND303, GND304	
<b>Inductors</b>							
#	1	3.3 uH 20%	P0751.332NLT	Pulse	BITECH/HM76-30150JLF	L301	
<b>Transistors</b>							
#	1	10K Biased NPN SOT-523	DDTC114TUA	Diodes Inc	SOT-323/BEC	Q901	
<b>Resistors</b>							
#	1	105K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1053V	Panasonic - ECG	RES\0603	R301	
#	1	20.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF2002V	Panasonic - ECG	RES\0603	R303	
#	2	100K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1003V	Panasonic - ECG	RES\0603	R304, R308	
#	2	1.00M OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1004V	Panasonic - ECG	RES\0603	R814, R815	
#	21	10.0K OHM RES 1/10W 1% 0603 SMD	ERJ-3EKF1002V	Panasonic - ECG	RES\0603	R307, R311, R477, R478, R479, R480, R481, R482, R483, R484, R485, R487, R489, R490, R492, R602, R603, R613, R903, R909, R912	
#	76	RES 22.0 OHM 1/10W 1% 0603 SMD	MCR03EZPFX22R0	Rohm	RES\0603	R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R623	
#	8	0 OHM RES 1/10W 5% 0603 SMD	ERJ-3GEY0R00V	Panasonic - ECG	RES\0603	R310, R476, R488, R491, R609, R612, R617, R910,	
#	2	RES 390 OHM 1/10W 1% 0603 SMD	MCR03EZPFX3900	Rohm	RES\0603	R493, R498	
#	2	RES 100K OHM 1/10W 1% 0402 SMD	ERJ-2RKF1003X	Panasonic - ECG	RES\0402	R802, R813	
#	1	RES 100 OHM 1/10W 1% 0603 SMD	ERJ-3EKF1000V	Panasonic - ECG	RES\0603	R911	
#	1	75.0 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX75R0	Rohm	RES\0603	R913	
#	1	240 OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2400	Rohm	RES\0603	R601	
#	14	4.70K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX4701	Rohm	RES\0603	R502, R503, R505, R508, R509, R512, R514, R515, R622, R710, R711, R715, R716, R905	
#	1	2.70K OHM RES 1/10W 1% 0603 SMD	MCR03EZPFX2701	Rohm	RES\0603	R902	
#	1	RES 47.0K OHM 1/16W 1% 0402 SMD	RC0402FR-0747KL	Yageo	RES\0402	R816	
#	1	RES 17.4K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1742V	Panasonic - ECG	RES\0603	R306	
#	1	RES 14.0K OHM 1/10W 1% 0603 SMD	ERJ-3EKF1402V	Panasonic - ECG	RES\0603	R309	
#	3	RES 330 OHM 1/10W 1% 0603 SMD	MCR03EZPFX3300	Rohm	RES\0603	R302	
#	11	RES 10.0 OHM 1/16W 1% 0402 SMD	ERJ-2RKF10R0X	Panasonic - ECG	RES\0402	R801, R803, R804, R805, R806, R807, R808, R809, R810, R811, R812	
<b>Switches</b>							
#	1	DPDT Slide Switch	1-1437575-7	TYCO		SW902	
#	1	Switch Block SM DIP6	TDA06H0SK1	C&K ITT	C&K/TDA06H0SK1	SW401	
#	1	TACT MOM 130GF H=5MM	PTS635SL50 LFS	C&K ITT	SWC&K/PTS635SL	SW901	
<b>ICs</b>							
#	1	Switching Reg. Adj.	ST1S10PUR	STMicroelectronics,	ST/DFN8	U301	
#	1	Linear Reg. Adj.	L6935	STMicroelectronics,	ST/VFQFPN20	U303	
#	1	Linear Reg. Adj.	L6933H1.2	STMicroelectronics,	SOIC127P600X175-8N	U302	
#	1	SCHMITT-TRG INV	74V1G14STR	STMicroelectronics,	SOT-23-5L	U603	

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#	1	IC HEX INVERTER UNBUFF 14-TSSOP	MM74HCU04MTCX	Fairchild Semiconductor	TSSOP14	U902	
#	1	VEGA Tx	STDP4028	Kinetic Technologies	LFPGA-164	U601	
#	1	EEPROM 256x8	M24C02-WMN6P	STMicroelectronics,	SOIC08	U403	
#	2	Sil 163B, DVI Rx	Sil 163B	Silicon Image	TSQFP50P1600X1600X100-100N	U401, U402	
#	1	2M FLASH	M25P20-VMN6TPB	Numonyx	SOIC127P790/600-8NX-SK	U602	
<b>Oscillator/Crystal</b>							
#	1	27MHz Crystal	ABM3-27.000MHZ-B2-T	ABRACON	ABRACON/ABM3	X601	
#		<b>Do not Populate</b>					
#	1	OSC 27.000 MHZ 3.3V SMD	ECS-2033-270-BN	ECS Inc		U605	
#	7	0R				R305, R486, R607, R620, R621, R904, R908	
#	9	4.7K				R501, R504, R506, R507, R510, R511, R513, R516, R901	
#	1					U604	
#	2					R615, R616	
#	3					TP601, TP901, TP902	
#	4	Mounting Hole			MTG125	MH301, MH302, MH303, MH304	