

# Bill of Materials

TI DESIGNS

TIDA-00306

Item	Qty	Fitted	Value	Part Description	PCB Footprint	Note
1	27		11,	CAP, SMD, Ceramic, 0603 20%	SMD0603-A-1	
2	1		C3	10uF - 7343 SMD, Tan, 20% 25V	SMD07343	
3	4		C28,C29,C30,C31	33U-7343 SMD, Tan, 20% 25V	SMD07343	
4	2		C33,C35	33PF CAP, SMD, Ceramic, 0805 10% 50V	SMD0805-A-1	
5	1		C40	33uF , Tantalum +/- 10% 16V 3528	SMD3528-B-1	
6	1		C41	68uF , Tantalum +/- 10% 16V 3528	SMD3528-B-1	
7	2		C87,C88	1500pF CAP, SMD, Ceramic, 1808 10% 2KV	SMD1808-A-1	
8	1		C91	10uF CAP, SMD, Tant, 3528 10% 16V	SMD3528-B-1	
9	4		C105,C106,C109,C110	0.001uF CAP, SMD, Ceramic, 0603 20% 16V	SMD0603-A-1	
10	3		C111,C112,C113	100nF CAP, SMD, Ceramic, 0603 20% 16V	SMD0603-A1	
11	1		C114	10uF , Tantalum +/- 10% 16V 3528	SMD3528-B-1	

Item	Qty	Fitted	Value	Part Description	PCB Footprint	Note
12	6		D2,D3,D4,D5,D6,D7	Bicolor-LEDs 7011X5/7	Digikey L61057CT_ND	
13	2		D9,D8	Ultra Bright Red Panasonic LNJ211R82RA		
14	1		D10	LTM673 OSRAM LTM673 Hyper- Bright LED	OSRAM/LTM673- R1S2-35	
15	1		J1	HDR-3X3	HDR-3X3	
16	1		J2	CON2x5_TH	cn-hdr2x5	
17	17		J4,J23,J36,J37,J40,J4 1, J48,J49,J50,J51,J52,J 55, J56,J57,J58,J90,J92	HDR-1X2	CN-HDR1X2	
18	2	DNP	J13,J7	HDR-2X20	CN-MII-40P-RA- M	
19	2		J8,J10	HDR-1X3	CN-HDR1X3	
20	2	DNP	J9,J14	CON-MII-MALE	CN-MII-40P-RA- M	
21	1		J26	HDR2X2	CN-HDR2X2	
22	6		47	HDR_1X3	CN-HDR1X3	
23	1		J85	CON-RJ45	PHONE8P8C-	
24	1	DNP	J84	CON-RJ45	PHONE8P8C-	
25	1		J89	HFBR-5803	Connector	
26	1		J91	POE Connector	PPPC071LGBN	
27	1		J93	HDR2X5	CN-HDR2X5	
28	2		L1,L2	1uH Murata LQM21N Series	10D Ferrite	
29	1		R1	1.5K , SMD, 0805 1/10W 1%	RES	
30	1		R20	1%	SMD0603-A-1	
31	10		7,R50,	33 RES, SMD, 0603 1/16W 5%	SMD0603-A-1	
32	7	DNP	110,R112,R128	RES, SMD, 0603 1/16W 5%	SMD0603-A-1	
33	1		R63	5%	SMD0603-A-1	
34	25		4,R95,	2.2K RES, SMD, 0603 1/16W 5%	SMD0603-A-1	
35	13		107,	165 , RES, SMD, 0603 1/16W 1%	SMD0603-A-1	

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36	8		8,R143,	RES, 49.9 , SMD, 0603 1/16W 1%	SMD0603-A-1	
37	8		0,R161,	75 RES, SMD, 0603 1/16W 1%	SMD0603-A-1	
38	2		R166,R165	50 RES, SMD, 0603 1/16W 1%	SMD0603-A-1	
39	5		2,R217	130 RES, SMD, 0603 1/16W 1%	SMD0603-A-1	
40	12	DNP	2,R185,	RES, SMD, 0603 1/16W 1%	SMD0603-A-1	
41	9		6,R177,	0 SRES, SMD, 0603 1/16W 1%	MD0603-A-1	
42	5		8,R218	80 RES, SMD, 0603 1/16W 1%	SMD0603-A-1	
43	2		R223,R224	22 RES, SMD, 0603 1/16W 5%	SMD0603-A-1	
44	1		R225	10 RES, SMD, 0603 1/16W 5%	SMD0603-A-1	
45	1		R231	100 RES, SMD, 0603 1/16W 5%	SMD0603-A1	
46	1		R232	1200 RES, SMD, 0603 1/16W 5%	SMD0603-A1	
47	1		R233	33 RES, SMD, 0603 1/16W 5%	SMD0603-A1	
48	2		R234,R235	210 RES, SMD, 0603 1/16W 5%	SMD0603-A-1	
49	1	DNP	T2	Pulse/H1102/H2019	H1102/H2019	
50	1	DNP	T1	Pulse/H1102/H2019	H1102/H2019	
51	1		U1	Temperature Ethernet PHY with	VHB80A	
52	1		U3	Regulator 5V-3.3V	SOT223-5	
53	3		U4,U5,U6	STATE output	SOT23-5	
54	1	DNP	X1	50 MHz Oscillator (50 ppm), 3.3V	4P	
55	1		Y1	XTAL - Crystal, 25.000M	25M HC49-US	
56	14		MII_5V	Jumper 2Pos , 2.54mm Pitch	Jumper setting	

MII with Copper Configuration - Do Not Stuff Components

X1

R223, R224, R225,

J90

R174, R175, R178, R179, R239

J89

Item	Qty	Fitted	Value	Part Description	PCB Footprint	Note
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MII with Fiber Configuration - Do Not Stuff Components

X1  
R223, R224, R225,  
J90  
R173, R176, R177, R180

RMII with Copper Configuration - Do Not Stuff Components

Y1  
C33, C35  
J90  
R174, R175, R178, R179, R239  
J89

RMII with Fiber Configuration - Do Not Stuff Components

Y1  
C33, C35  
J90  
R173, R176, R177, R180