

Bill of Materials

TI DESIGNS TIDA-00207

EN55011 complaint Single Port Industrial Temp 10_100Mbps Ethernet PHY Brick

Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	
0	C1, C4	CAP CER 1UF 16V 10% X5R 1206	Murata Electronics	GRM31MR61C105KA0	1206	Not Fitted
0	C2, C7, C44	CAP CER 0.22UF 6.3V 10% X7R 0603	Kemet	C0603C224K9RACTU	0603	Not Fitted
0	C3, C9	CAP, CERM, 33pF, 50V, +/-5%, COG/NPO, 0603	AVX	06035A330JAT2A	0603	Not Fitted
0	C5	CAP, CERM, 0.1uF, 16V, +80/-20%, Y5V, 0603	Kemet	C0603C10424VACTU	0603	Not Fitted
1	C8	CAP CER 15PF 50V 5% NPO 0402	TDK Corporation	C1005C0G1H150J050BA	0402	Fitted
0	C10	CAP, CERM, 0.01uF, 50V, +/-10%, COG/NPO, 0402	MuRata	GCM155R71H103KA55D	0402	Not Fitted
2	C11, C49	CAP, CERM, 39pF, 25V, +/-5%, COG/NPO, 0402	MuRata	GRM1555C1E390JA01D	0402	Fitted
0	C12	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	Yageo America	CC0402KRX7R98B101	0402	Not Fitted
2	C13, C24	CAP, CERM, 10uF, 35V, +/-10%, X7R, 1206	Taiyo Yuden	GMK316AB7106KL	1206	Fitted
2	C16, C21	CAP, CERM, 33pF, 50V, +/-5%, COG/NPO, 0603	AVX	06035A330JAT2A	0603	Fitted
3	C17, C25, C32	CAP, CERM, 100pF, 50V, +/-10%, X7R, 0402	Yageo America	CC0402KRX7R98B101	0402	Fitted
2	C18, C29	CAP, TA, 100uF, 10V, +/-20%, 0.6 ohm, SMD	Vishay-Sprague	293D107X0010D2TE3	7343-31	Fitted
3	C20, C48, C54	CAP, CERM, 0.01uF, 50V, +/-10%, COG/NPO, 0402	MuRata	GCM155R71H103KA55D	0402	Fitted
4	C22, C47, C53, C55	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	Kemet	C0603C104K4RACTU	0603	Fitted
4	C23, C26, C36, C37	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	TDK	C1005X5R1A104K	0402	Fitted
4	C27, C31, C33, C34	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	MuRata	GRM185R60J105KE26D	0603	Fitted
3	C28, C50, C52	CAP, CERM, 1000pF, 25V, +/-10%, X5R, 0402	MuRata	GRM155R61E102KA01D	0402	Fitted
1	C30	CAP, TA, 10uF, 16V, +/-10%, 2 ohm, SMD	Vishay-Sprague	293D106X9016B2TE3	3528-21	Fitted
1	C35	CAP, CERM, 0.22uF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C224KA01D	0603	Fitted
2	C38, C39	CAP, CERM, 1000pF, 2000V, +/-10%, X7R, 1812	AVX	1812GC102KA1	1812	Fitted
1	C40	CAP, CERM, 4700pF, 2000V, +/-10%, X7R, 1812	AVX	1812GC472KA1	1812	Fitted
0	C41, C43, C45	CAP, CERM, 4.7uF, 6.3V, +/-10%, X5R, 0603	Kemet	C0603C475K9PACTU	0603	Not Fitted
0	C42, C46	CAP, CERM, 1000pF, 25V, +/-10%, X5R, 0402	MuRata	GRM155R61E102KA01D	0402	Not Fitted
0	C51	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	Kemet	C0603C104K4RACTU	0603	Not Fitted
2	D1, D2	Diode, Schottky, 200V, 1A, PowerDI123	Diodes Inc.	DFLS1200-7	powerDI123	Fitted
1	D3	Quad Channel High Speed ESD Protection Device, DCK0006A	Texas Instruments	TPD4E1U06DCK	DCK0006A_N	Fitted
1	D4	Diode, Zener, 3.9V, 550mW, SMB	ON Semiconductor	15MB5915B73G	SMB	Fitted
0	FB1, FB2, FB3	FERRITE CHIP 1000 OHM 300MA 0603	TDK Corporation	MMZ1608B102C	FB0603	Not Fitted
12	FB4, R19, R33, R35, R41, R44, R45, R51, R53, R61, R79, R84	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603000020EA	0603	Fitted
0	FID1, FID2, FID3, FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	Fiducial10-20, Fiducial10-20, Fiducial10-20, Fiducial10-30, Fiducial10-30, Fiducial10-30	Fitted
1	J1	CONN TERM BLOCK 2.54MM 2POS PCB	On Shore Technology Inc	OSTVNO2A150	CN2_MTB_P100_PD80_D1_1_S54X6.5_STACK	Fitted
0	J2	CONN HEADER 3POS 2MM VERT T/H	3M	951103-8622-AR	HEADER_1X3X2MM	Not Fitted
1	J3	CONN MOD JACK R/A 8P8C SHIELDED	TE Connectivity	6116526-1	TE_6116526-1	Fitted
1	J4	Receptacle, 0.8mm, 25x2, SMT	Samtec	ERF8-025-05.0-L-DV-K-TR	CONN_ERF8-025-05_0-L-DV-L-TR	Fitted
0	LBL1	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	Brady	THT-14-423-10	Label_650x200	Not Fitted
5	LD1, LD2, LD3, LD4, LD5	LED SmartLED Green 570NM	OSRAM	LG L29K-G2J1-24-Z	LED0603AA	Fitted
4	MH1, MH2, MH3, MH4	Mountin hole, NPTH Drill 3.2mm	N/A	N/A	MH3.2_H5_W6_K08_STARHEAD	Fitted
16	R1, R2, R3, R4, R5, R6, R7, R10, R11, R23, R24, R25, R26, R27, R28, R62	RES, 100 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402100RJNED	0402	Fitted
1	R8	RES, 0 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW0402000020ED	0402	Fitted
0	R9, R36	RES, 1.00Meg ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04021M00FKED	0402	Not Fitted
0	R12, R18, R29, R46, R47, R52, R78	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603000020EA	0603	Not Fitted
1	R13	RES, 33 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040233R0JNED	0402	Fitted
0	R14, R15	RES, 22 ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW040222R0JNED	0402	Not Fitted
0	R16, R63, R66, R67, R68, R69, R71, R72	RES, 2.2k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04022K20JNED	0402	Not Fitted
1	R17	RES, 100 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW0603100RJNEA	0603	Fitted
4	R21, R30, R34, R38	RES, 0 ohm, 5%, 0.125W, 0805	Yageo America	RC0805JR-070RL	0805_HV	Fitted
0	R31, R59, R60	RES, 4.7k ohm, 5%, 0.1W, 0603	Yageo America	RC0603JR-074K7L	0603	Not Fitted
5	R32, R49, R76, R80, R83	RES, 470 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-07470RL	0603	Fitted
4	R39, R40, R42, R43	RES, 49.9 ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW040249R9FKED	0402	Fitted
1	R48	RES, 3.3k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04023K30JNED	0402	Fitted
1	R100	RES, 2.2k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04022K20JNED	0402	Not Fitted
8	R50, R64, R65, R70, R75, R77, R81, R82	RES, 2.2k ohm, 5%, 0.063W, 0402	Vishay-Dale	CRCW04022K20JNED	0402	Fitted
4	R54, R55, R56, R57	RES, 75.0 ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-0775RL	0603	Fitted
1	R58	RES, 1.0Meg ohm, 5%, 0.25W, 1206	Vishay-Dale	CRCW12061M00JNEA	1206	Fitted
1	R73	RES, 4.87k ohm, 1%, 0.1W, 0603	Vishay-Dale	CRCW06034K87FKEA	0603	Fitted
1	R74	RES, 2.00k ohm, 1%, 0.063W, 0402	Vishay-Dale	CRCW04022K00FKED	0402	Fitted
1	T1	TRANSFORMER, MDL, XFMR SGL ETHR LAN, SOIC-16	PULSE ELECTRONICS	HX1198FNL	XFMR_HX1198FNL	Fitted
2	TP1, TP2	Test Point 40mil pad 20mil drill	STD	STD	TP1_PD40_D0.5_S50	Fitted
0	U1	IC REG LDO 1.8V 50MA SC70-5	TI	TPS71518DCKR	SOP_5P.65MM(DCK)	Not Fitted
0	U2	Programmable 1-PLL VCKO Clock Synthesizer With 1.8-V, 2.5-V, and 3.3-V Outputs, PW0014A	Texas Instruments	CDC913PW	PW0014A_N	Not Fitted
1	U4	IC, Low Dropout Voltage Regulator, 3.3 V, 2.0 A	Texas Instruments	TPS75433QPWP	PWP20	Fitted
0	U5	3.3 V and 2.5 V LVCMOS High-Performance Clock Buffer Family, PW0008A	Texas Instruments	CDCLVC1102PW	PW0008A_N	Not Fitted
1	U15	TI DP83848J 10/100 PHY	Texas Instruments	DP83848KSQ/NOPB	QFN50P600X600X80-40N	Fitted
0	X1	OSC 25.00 MHz 3.3V HIGH STAB SMD	EPSON	HG-2150CA 25.000M-BXC3	OSC_HG-2150CA	Not Fitted

Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	
0	Y1	CRYSTAL 25.0MHZ 18PF SMD	CTS-Frequency Controls	445I23D25M00000	XTAL_ATS250BSM-1E_1	Not Fitted
1	Y2	CRYSTAL 25.0MHZ 18PF SMD	CTS-Frequency Controls	445I23D25M00000	XTAL_ATS250BSM-1E_1	Fitted

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