10/100 Mb/s Ethernet MacPHYTERII DP83816 Demo Board (Amber) Revised: Friday, January 23, 2004

870011508-300 Revision: 1.2a

Bill of Materials

léana	Overstitue	Deference	Part Vendor	Footprint	Part Description	Dant Number
Item	Quantity	Reference	vendor			Part Number
			C100p-1808	SMD1808-A1	CAP, SMD, Ceramic, 10%, 2kV, 1808	
1	1	C1	C100p-1606	SWD1000-AT	CAP, SWD, Ceramic, 10%, 2KV, 1808	
•						
			C-0.1uF	SMD0603-A1	C/C/SMD, Y5V, +80/-20%, 25V, 0603	
3	9	C3,C4,C5,C6,C7	AVX CORPORATION, A KYOCERA GRP CO		0/0/0mD, 134, 400/-2076, 234, 0003	
ů.		C8,C40,C42,C45	AVX TANTALUM CORPORATION (KYOCERA)			06033G104ZAT2A
		00,040,042,040	KEMET UNION CARBIDE CORP			C0603C104Z3VAC
			MURATA ELECTRONICS N AMERICA, INC.			
			MURATA MFG CO LTD			GRM39Y5V104Z025AD
			MEPCOPAL COMPANY (PHILIPS COMPS)			06032F104Z8BB0D
			PHILIPS COMPONENTS			2222 916 19849
			ROHM CO LTD (HQ)			
			ROHM ELECTRONICS (US HQ)			
			ROHM INDUSTRIA ELETRONICA LTDA			MCH182F104ZK
			TDK CORPORATION			
			TDK CORPORATION OF AMERICA			C1608Y5V1E104ZT
			NOVACAP (DOVER TECH)			0603Y104Z250NT
			SAMSUNG ELECTRO-MECHANICS (KOREA)			
			SAMSUNG ELECTRO-MECHANICS (USA)			CL10F104ZANC
			CAL-CHIP ELECTRONICS			GMC10Y5V104Z25NT
			C-0.01uF	SMD0603-A1	C/C/SMD, Y5V, +80/-20%, 25V, 0603	
4	8	C12,C13,C16,C18,	AVX CORPORATION, A KYOCERA GRP CO			
		C20,C21,C22,C23	AVX TANTALUM CORPORATION (KYOCERA)			06035G103ZAT2A
			MURATA ELECTRONICS N AMERICA, INC.			
			MURATA MFG CO LTD			GRM39Y5V103Z050AD
			MEPCOPAL COMPANY (PHILIPS COMPS)			06032F103Z9BB0D
			PHILIPS COMPONENTS			2222 586 19836
			ROHM CO LTD (HQ)			
			ROHM ELECTRONICS (US HQ)			
			ROHM INDUSTRIA ELETRONICA LTDA			MCH185F103ZK
			TDK CORPORATION			04000/5//4/40077
			TDK CORPORATION OF AMERICA NOVACAP (DOVER TECH)			C1608Y5V1H103ZT 0603Y103Z500NT
			SAMSUNG ELECTRO-MECHANICS (KOREA)			060311032500N1
			SAMSUNG ELECTRO-MECHANICS (KOREA)			CL10F103ZBNC
			CAL-CHIP ELECTRONICS			GMC10Y5V103Z50NT
						01010134103230141
			C-0.47uF	SMD1206-A1	C/C/SMD, +80-20%, 25V, 1206	
5	1	C25	AVX CORPORATION, A KYOCERA GRP CO		0/0/0ml2, 100-2070, 204, 1200	
			AVX TANTALUM CORPORATION (KYOCERA)			12065G474ZAT2A
			MURATA ELECTRONICS N AMERICA, INC.			
			MURATA MFG CO LTD			GRM42-6Y5V474Z050AD
			ROHM CO LTD (HQ)			
			ROHM ELECTRONICS (US HQ)			
			ROHM INDUSTRIA ELETRONICA LTDA			MCH315F474ZK
			NOVACAP (DOVER TECH)			1206Y474Z500NTM
			TDK CORPORATION			
			TDK CORPORATION OF AMERICA			C3216Y5V1H474ZT
			C-33uF	SMD7343-A1	C/T/SMD, +/-20%, 16V, 7343	
6	1	C27	AVX CORPORATION, A KYOCERA GRP CO			
			AVX TANTALUM CORPORATION (KYOCERA)			TAJD336M016

			Part	Footprint	Part Description	
Item	Quantity	Reference	Vendor			Part Number
			CENTRALAB HONG KONG LTD (PHILIPS)			
			MEPCO/CENTRALAB (PHILIPS COMPS)			49MC336D016MOASFT
			KEMET UNION CARBIDE CORP			T491D336M016AS
			NEC CORPORATION HQ			
			NEC ELECTRONICS INC.			NRD336M16R
			MATSUSHITA ELECTRIC INDUSTRIAL CO			
			PANASONIC IND CO / DIV MATSUSHITA			ECST1CD336R
			ITT CANNON COMPONENTS DIV			TAJD336M016R
			SPRAGUE ELECTRIC CO - CAPS, ALUM			
			SPRAGUE ELECTRIC CO - CAPS, FILM			
			SPRAGUE ELECTRIC CO - CAPS, TA SOL			
			SPRAGUE ELECTRIC CO - CAPS, TA SOL			
			SPRAGUE ELECTRIC CO - CAPS, TA WET			
			SPRAGUE ELECTRIC CO - FILTERS			293D336X0016D2T
			C-27pF	SMD0603-A1	C/C/SMD, COG, 10%, 50V, 0603	
8	2	C31,C32	AVX CORPORATION, A KYOCERA GRP CO			
			AVX TANTALUM CORPORATION (KYOCERA)			06035A270KAT2A
			KEMET UNION CARBIDE CORP			C0603C270K5GAC
			MURATA ELECTRONICS N AMERICA, INC.			
			MURATA MFG CO LTD			GRM39COG270K050AD
			MEPCOPAL COMPANY (PHILIPS COMPS)			0603CG270K9BB0
			PHILIPS COMPONENTS			2222 867 16279
			ROHM CO LTD (HQ)			
			ROHM ELECTRONICS (US HQ)			
			ROHM INDUSTRIA ELETRONICA LTDA			MCH185A270KK
			TDK CORPORATION			
			TDK CORPORATION OF AMERICA			C1608C0G1H270FT
			NOVACAP (DOVER TECH)			0603N270K500NT
			SAMSUNG ELECTRO-MECHANICS (KOREA)			
			SAMSUNG ELECTRO-MECHANICS (USA)			CL10C270KBNC
			CAL-CHIP ELECTRONICS			GMC10CG270K50NT
			C-10uF	SMD6032-A1	C/T/SMD, +/-20%, 16V, 6032	
9	3	C37,C38,C39	KEMET UNION CARBIDE CORP			T491C106M016AS
		001,000,000	SPRAGUE ELECTRIC CO - CAPS, ALUM			
			SPRAGUE ELECTRIC CO - CAPS, FILM			
			SPRAGUE ELECTRIC CO - CAPS, TA SOL			
			SPRAGUE ELECTRIC CO - CAPS, TA SOL			
			SPRAGUE ELECTRIC CO - CAPS, TA WET			
			SPRAGUE ELECTRIC CO - FILTERS			293D106X0016C2T
			NICHICON AMERICA CORP			F931C106MC
			KOA SPEER ELECTR INC			
			KOA (JAPAN)			TMC1CC106MLRH
			C-0.001uF	SMD0603-A1	C/C/SMD, Y5V, +80/-20%, 50V, 0603	
10	2	C41,C43	MURATA ELECTRONICS N AMERICA, INC.	SWID0003-AT	0/0/3WD, 13V, 1 00/2070, 30V, 0003	
10	2	041,045	MURATA ELECTRONICS N AMERICA, INC.			GRM39Y5V102Z050AD
			ROHM CO LTD (HQ)			GINING TO TOLLUGUAD
			ROHM ELECTRONICS (US HQ)			
			ROHM INDUSTRIA ELETRONICA LTDA			MCH185F102ZK
			TDK CORPORATION			
						C1609VEV/1H1027T
			TDK CORPORATION OF AMERICA NOVACAP (DOVER TECH)			C1608Y5V1H102ZT 0603Y102Z500NT
			DUVEK IECH)			000311022300N1
			C-10uF	SMD3528-B1	CAR SMD Tont 10% 161/ 2520	
44		044		SWID3528-B1	CAP, SMD, Tant, 10%, 16V, 3528	
11	1	C44	AVX CORPORATION, A KYOCERA GRP CO			TA ID400K040D
			AVX TANTALUM CORPORATION (KYOCERA)			TAJB106K016R
			KEMET UNION CARBIDE CORP			T491B106K016AS
			MALLORY - N AMERICAN CAPACITOR CO			T491B106K016AS

	• •	-	Part	Footprint	Part Description	
Item	<u>Quantity</u>	Reference	Vendor MATSUSHITA ELECTRIC INDUSTRIAL CO			Part Number
			PANASONIC IND CO / DIV MATSUSHITA			ECST1CX106KR
			SPRAGUE ELECTRIC CO - CAPS, ALUM			LEGITERIORK
-			SPRAGUE ELECTRIC CO - CAPS, FILM			
		1	SPRAGUE ELECTRIC CO - CAPS, TA SOL			
			SPRAGUE ELECTRIC CO - CAPS, TA SOL			
			SPRAGUE ELECTRIC CO - CAPS, TA WET			
			SPRAGUE ELECTRIC CO - FILTERS			293D106X9016B2
			NICHICON AMERICA CORP			F931C106KBA
			KOA SPEER ELECTR INC			
			KOA (JAPAN)			TMC1CB106KLRH
			MATSUO ELECTRONICS			267E1602106K
			LED-YEL-SMD	LED-SMD-2P	LED, Yellow, SMD, Gull Wing S-Type	
13	1	D3	DIGI-KEY CORPORATION			P517CT-ND
			MATSUSHITA ELECTRIC INDUSTRIAL CO			
			PANASONIC IND CO / DIV MATSUSHITA			LN1471SY
			LED-GRN-SMD	LED-SMD-2P	LED Green SMD Cull Ming S Ture	
14	2	D4,D5	DIGI-KEY CORPORATION	LED-SWID-2P	LED, Green, SMD, Gull Wing S-Type	P516CT-ND
14	2	04,05	MATSUSHITA ELECTRIC INDUSTRIAL CO			F310CT-ND
			PANASONIC IND CO / DIV MATSUSHITA			LN1371SG
						ENISTIGO
-			DIODE	SMB	Schottky Diode - (Intl Rect 10BQ015)	
15	5	D6,D7,D8,D9,D10	International Rectifier			10BQ015
			RJ45_LAN		RJ-45_LAN WITH SHIELDS	
17	1	JP6	TYCO Electronics			AMP 557787-1
			STEWART CONNECTOR SYSTEMS INC.			SS-6488S-A-NF
			WOLHDR		WOL/PME Header 1 x 3 (AMP 173979-3)	
19	1	J2	TYCO Electronics			AMP 173979-3
	-					
04		1.0	L-BEAD	SMD1206-A1	Inductor, 26 ohms @100Mhz, 1206	
21	1	L2	TDK CORPORATION			HF70ACB-321611T CB30-1206 T&R
		1				CB30-321611T
						CB30-3210111
			DUAL-MOSFET	SO-8	Dual MOSFET - PMOS & NMOS (Intl Rect IRF7105)	
22	2	Q1,Q2	International Rectifier			IRF7105
23	2	R2,R3	R-49.9	SMD0603-A1	RES, SMD, 1/10W, 1%, 0603	
24	2	R5,R4	R-54.9	SMD0603-A1	RES, SMD, 1/10W, 1%, 0603	
25	3	R6,R15,R16	R-0.0	SMD0603-A1	RES, SMD, 1/16W, 1%, 0603	
26	1	R7	R-10K +/-1%	SMD0603-A1	RES, SMD, 1/16W, 1%, 0603	
27	3	R8,R9,R10	R-453	SMD0603-A1	RES, SMD, 1/10W, 1%, 0603	
28	2	R11,R12	R-1K	SMD0603-A1	RES, SMD, 1/16W, 5%, 0603	
29	4	R14,R19,R22,R23	R-75	SMD0603-A1	RES, SMD, 1/16W, 1%, 0603	
30	3	R17,R18,R24	R-10K	SMD0603-A1	RES, SMD, 1/10W, 1%, 0603	
31	1	R21	R-20K	SMD0603-A1	RES, SMD, 1/10W, 1%, 0603	
33	1	T1	10/100M XFORMER	XFMR-PULSE-PE68515	10/100BASE MAGNETICS	
			Pulse			PE-68515L
		110		MAGAA	Value Developer 5.0.00 007000	
34	1	U2	VOLTAGE REG NATIONAL SEMICONDUCTOR CORP	MA04A	Voltage Regulator 5-3.3v SOT223	LM3940IMP-3.3
						LNI39401NIP-3.3
35	1	U3	EEPROM	SO8N	Serial EEPROM 1024bits	
55		05		0001		

			Part	Footprint	Part Description	
Item	Quantity	Reference	Vendor			Part Number
			FAIRCHILD SEMICONDUCTOR			FM93C46LM8
36	1	U5	DP83816	QFP144-JEDEC-VNG144A	MacPHYTERII DP83816	
37	1		BOOT ROM SOCKET	XPLCC32RECT	BIOS ROM Socket (128 x 8K)	
			TYCO Electronics			AMP 822406-1
			BERG ELECTRONICS - MCKENZIE DIV			PLCC-32P-T-SMT-P
			METHODE ELECTRONICS INC BUS BAR DIV			
			METHODE ELECTRONICS INC., CONN DIV			213-032-601
			NEWARK ELECTRONICS			51F1155
38	1	Y2	XSTAL-25M	HC49-US	Crystal, 25.000M, 20pF, 50ppm	230008714-025
			FOX ELECTRONICS			FOXS/250F-20
			MONITOR PRODUCTS CO. INC.			MS49N1C3A25.000
			RALTRON			AS-25.000-20 30/50PPM
			CALIBER ELECTRONICS, INC.			BB20C1-25.000MHZ
			ABRACON CORPORATION			ABL-25.0000MHZ-20-4-Z
			HOSONIC ELECTRONIC CO., LTD.			HC-49S-25.000-20-F
		On board Parts b	ut not required:			
2	1	C2	C-1uF	SMD0603-A1	Ceramic Y5V, +80/-20%, 10V, 0603	
4	4	C14,C15,C17,C19	C-0.01uF	SMD0603-A1	C/C/SMD, Y5V, +80/-20%, 25V, 0603	
7	1	C30	C-10pF	SMD0603-A1	C/C/SMD, COG, 10%, 50V, 0603	
12	1	D1	DIODES-ESD	SO8-A1	Quad Diode, ESD, SO8	SGS-Thomson DA108S1
16		FID1,FID2,FID3,FID4	FIDUCIAL	FID40R	Fiducial (no stuff)	Do Not Populate
18		J1	PCI EDGE CONNECTOR	CN-PCI-FINGER	PCI Edge Connector	Do Not Populate
20	1	J4	HDR-1X1	CN-HDR1X1		
21	1	L1	L-BEAD	SMD1206-A1	Inductor, 26 ohms @100Mhz, 1206	
28	1	R13	R-1K	SMD0603-A1	RES, SMD, 1/16W, 5%, 0603	
30	1	R25	R-10K	SMD0603-A1	RES, SMD, 1/10W, 1%, 0603	
32	1	R26	R-0.0	SMD1210-A1	RES, SMD, 1/4W, 1%, 1210	

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