POE Power Supply BOM								
Texas Instruments								
PMP511	Rev B					10/17/03		
Otv	RefDes	Part Number	Value	Description	Mfr	Cizo		
Qty	C16			<u>Description</u> Capacitor, Ceramic, 330pF, 50V, C0G, 5%	Std	<u>Size</u> 603		
1 1	C19	Std Std		Capacitor, Ceramic, 350pF, 50V, C0G, 5%	Std	603		
1	C19	Std		Capacitor, Ceramic, 560pF, 50V, C0G, 5%  Capacitor, Ceramic, 680pF, 50V, C0G, 5%	Std	603		
	C16	Std						
1	C17, C20,	Sid	8200pr	Capacitor, Ceramic, 8200pF, 50V, X7R, 10%	Std	603		
2	C17, C20,	Std	0 022HE	Conneitor Coromio 0.033uE 35V V7B 109/	Std	603		
2	C15, C23	Std		Capacitor, Ceramic, 0.033uF, 25V, X7R, 10% Capacitor, Ceramic, 1uF, 16V, X7R, 10%	Std	805		
1	C7	Std		Capacitor, Ceramic, 10F, 16V, X7R, 10%  Capacitor, Ceramic, 0.1uF, 100V, X7R, 10%	Std	1206		
1	C13	C3225X5R1C106M		Capacitor, Ceramic, 0.10F, 16V, X5R, 20%	TDK	1210		
<u>'</u>	C8, C9,	C3223A3R 1C 100W	TOUF	Capacitor, Ceramic, Tour, Tov, ASK, 20%	IDK	1210		
2	Co, C9,	COOLEVEDO IOSEM	22115	Conneitor Coromio 22uE 6.2V VEB 200/	TDV	1210		
3	C10	C3225X5R0J226M		Capacitor, Ceramic, 22uF, 6.3V, X5R, 20%	TDK AVX	1812		
2		1812CG472MAT		Capacitor, Ceramic, 4700pF, 2KV, X7R, 20%				
	C11, C12	EEVFK0J331P		Capacitor, Aluminum, SM, 330uF, 6.3V	Panasonic	8x6.2mm		
2	C5	EEVFK1J680P	68uF	Capacitor, Aluminum, SM, 68uF, 63V	Panasonic On Somi	10x10mm SOT-23		
	D5, D8	BAS16LT1 BZX84C18LT1	10\/	Diode, Switching, 200mA, 75V, 225mW	On Semi			
2	D6, D7 D3			Diode, Zener, 18V, 225mW Diode, UltraFast Rectifier, 1A, 200V	On Semi	SOT-23		
1 1	L1	MURS120T3			On Semi	SMB		
1		P0770.103		Inductor, SMT, 10uH, 1.1A, 160milliohm	Pulse	4.45x6.6mm		
<u>1</u> 1	L3 R12	P0751.102		Inductor, SMT, 1uH, 6.8A, 10milliohm	Pulse	9.4x12.95mm		
		Std		Resistor, Chip, 0 Ohms	Std	603		
11	R7	Std		Resistor, Chip, 10 Ohms, 1/16W, 5%	Std	603		
1	R6	Std		Resistor, Chip, 20 Ohms, 1/16W, 5%	Std	603		
1	R13	Std		Resistor, Chip, 249 Ohms, 1/16W, 1%	Std	603		
2	R9, R17	Std		Resistor, Chip, 499 Ohms, 1/16W, 1%	Std	603		
1	R14	Std		Resistor, Chip, 1.00K Ohms, 1/16W, 1%	Std	603		
1	R11	Std		Resistor, Chip, 9.09K Ohms, 1/16W, 1%	Std	603		
1	R10	Std		Resistor, Chip, 10.0K Ohms, 1/16W, 1%	Std	603		
1	R16	Std		Resistor, Chip, 20.0K Ohms, 1/16W, 1%	Std	603		
1	R19	Std		Resistor, Chip, 23.7K Ohms, 1/16W, 1%	Std	603		
1	R15	Std		Resistor, Chip, 40.2K Ohms, 1/16W, 1%	Std	603		
1	R18	Std		Resistor, Chip, 49.9K Ohms, 1/16W, 1%	Std	603		
1	R5	Std		Resistor, Chip, 40.2K Ohms, 1/10W, 1%	Std	805		
1	R2	Std		Resistor, Chip, 100K Ohms, 1/10W, 1%	Std	805		
1	R8	Std	0.82	Resistor, Chip, 0.82 Ohms, 1/2W, 1%	Std	2010		
3	J2, J3, J4	ED1514		Terminal Block, 2-pin, 6-A, 3.5mm	OST	0.27 x 0.25""		
1	Q1	Si4840DY		MOSFET, N-ch, 40V, 14A, 9milliOhms	Vishay	SO-8		
11	Q2	Si4848DY		MOSFET, N-ch, 150V, 3.7A, 85milliOhms	Vishay	SO-8		
1	T1	PA0691		Transformer, Flyback, 2 Primary, 2 Secondary Custom	Pulse	0.675x0.875x0.33		
11	U4	H11A817AS		IC, Optocoupler, 5300V, 80-160% CTR	Fairchild	0.405 x 0.190		
1	U5	TLV431ACDBVR		IC, Shunt Regulator, 1.24V Ref, 6V, 10mA, 1%	TI	SOT23-5		
1	U3	UCC3809P-2		IC, Economy Primary-Side Controller	TI	MSOP-8		
D-E-0	l taallas							
PoE Con		04-1	04.5	Ornaritas Ornaria O AuE ACOV VZD 4004	Otal	4000		
2	C4, C6	Std	0.1uF	Capacitor, Ceramic, 0.1uF, 100V, X7R, 10%	Std	1206		
2	D1, D2	DF01S		Diode, Bridge Rectifier, 1A, 100V	Diodes, Inc.	DF-S		
11	D4	1SMB54AT3		Diode, TVS, 54V, 600W	On Semi	SMB		
11	J1	520252		Connector, Modular, 8 Position	AMP	0.705x0.82		
11	J5	PTC36SAAN		Header, 6 Pin, 100mil Spacing, (36 Pin Strip)	Sullins	0.1x0.6		
11	L2	P0354		Inductor, Common Mode, 1.17mH, 1.22A	Pulse	0.5x0.5"		
11	R1	Std		Resistor, Chip, 24.9K Ohms, 1/16W, 1%	Std	603		
1	R3	Std		Resistor, Chip, 1.00M Ohms, 1/16W, 1%	Std	603		
1	R4	Std	357	Resistor, Chip, 357 Ohms, 1/16W, 1%	Std	603		
1	T2	H2019		Transformer, Center-Tapped, VoIP	Pulse	0.5x0.37		
1	U2	TPS2370PW		IC, Hot SwapSwitch for PoE Power Devices	TI	TSSOP8-PW		
1.8V LDC								
1	C1	Std		Capacitor, Ceramic, 0.015uF, 50V, X7R, 10%	Std	603		
2	C2, C3	Std	10uF	Capacitor, Ceramic, 10uF, 6.3V, X5R, 20%	Std	805		
1	U1	TPS79618KTT		IC, Ultra Low-Noise, High PSRR, Fast RF 1A LDO Linear	TI	DDPAK-5		

## **IMPORTANT NOTICE**

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its hardware products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

TI assumes no liability for applications assistance or customer product design. Customers are responsible for their products and applications using TI components. To minimize the risks associated with customer products and applications, customers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any TI patent right, copyright, mask work right, or other TI intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license from TI to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. Reproduction of this information with alteration is an unfair and deceptive business practice. TI is not responsible or liable for such altered documentation.

Resale of TI products or services with statements different from or beyond the parameters stated by TI for that product or service voids all express and any implied warranties for the associated TI product or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

Products		Applications	
Amplifiers	amplifier.ti.com	Audio	www.ti.com/audio
Data Converters	dataconverter.ti.com	Automotive	www.ti.com/automotive
DSP	dsp.ti.com	Broadband	www.ti.com/broadband
Interface	interface.ti.com	Digital Control	www.ti.com/digitalcontrol
Logic	logic.ti.com	Military	www.ti.com/military
Power Mgmt	power.ti.com	Optical Networking	www.ti.com/opticalnetwork
Microcontrollers	microcontroller.ti.com	Security	www.ti.com/security
		Telephony	www.ti.com/telephony
		Video & Imaging	www.ti.com/video
		Wireless	www.ti.com/wireless

Mailing Address: Texas Instruments

Post Office Box 655303 Dallas, Texas 75265

Copyright © 2003, Texas Instruments Incorporated