

2/26/03		PMP411		POE Power Supply BOM		
		Rev B		Texas Instruments		
Qty	RefDes	Part Number	Value	Description	Mfr	Size
2	C22, C28	Std	10pF	Capacitor, Ceramic, 10pF, 50V, C0G, 5%	Std	603
1	C19	Std	330pF	Capacitor, Ceramic, 330pF, 50V, C0G, 5%	Std	603
1	C21	Std	680pF	Capacitor, Ceramic, 680pF, 50V, C0G, 5%	Std	603
1	C24	Std	1000pF	Capacitor, Ceramic, 1000pF, 50V, COG, 5%	Std	603
3	C20, C23, C25	Std	0.033uF	Capacitor, Ceramic, 0.033uF, 25V, X7R, 10%	Std	603
1	C30	Std	0.1uF	Capacitor, Ceramic, 0.1uF, 25V, X7R, 10%	Std	603
2	C18, C26	Std	1uF	Capacitor, Ceramic, 1uF, 16V, X7R, 10%	Std	805
4	C1, C27, C31, C32	C1220X5R0J106K	10uF	Capacitor, Ceramic, 10uF, 6.3V, X5R, 10%	TDK	805
3	C4, C5, C10	Std	0.1uF	Capacitor, Ceramic, 0.1uF, 100V, X7R, 10%	Std	1206
1	C29	C3216X7R1E105K	1uF	Capacitor, Ceramic, 1uF, 25V, X7R, 10%	TDK	1206
1	C11	C3225X5R1C106M	10uF	Capacitor, Ceramic, 10uF, 16V, X5R, 20%	TDK	1210
5	C6, C7, C12, C13, C14	C3225X5R0J226M	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 20%	TDK	1210
1	C17	1812CG472MAT	4700pF	Capacitor, Ceramic, 4700pF, 2KV, X7R, 20%	AVX	1812
4	C8, C9, C15, C16	EEVFK0J331P	330uF	Capacitor, Aluminum, SM, 330uF, 6.3V	Panasonic	8x6.2mm
2	C2, C3	EEVFK1J680P	68uF	Capacitor, Aluminum, SM, 68uF, 63V	Panasonic	10x10mm
2	D10, D11	BAS16LT1		Diode, Switching, 200mA, 75V, 225mW	On Semi	SOT-23
2	D8, D9	BZX84C27LT1	27V	Diode, Zener, 27V, 225mW	On Semi	SOT-23
1	D12	MBR0530T1		Diode, Schottky, 0.5A, 30V	On Semi	SOD-123
1	D5	MBRS2040LT3		Diode, Schottky, 2A, 40V	On Semi	SMB
1	D6	MURS120T3		Diode, UltraFast Rectifier, 1A, 200V	On Semi	SMB
4	D1, D2, D3, D4	S1B		Diode, Rectifier, 1A, 100V	Diodes, Inc.	SMA
1	D7	1SMA54AT3		Diode, TVS, 54V, 400W	On Semi	SMA
1	L2	DO1608C-102	1uH	Inductor, SMT, 1uH, 2.9A, 50milliohm	Coilcraft	4.45x6.6mm
1	L6	DO1608C-103	10uH	Inductor, SMT, 10uH, 1.1A, 160milliohm	Coilcraft	4.45x6.6mm
1	L5	DO1608C-223	22uH	Inductor, SMT, 22uH, 0.7A, 370milliohm	Coilcraft	4.45x6.6mm
1	L4	DO3316P-102	1uH	Inductor, SMT, 1uH, 6.8A, 9milliohm	Coilcraft	9.4x12.95mm
1	L1	DT3316P-224	220 uH	Inductor, SMT, 220uH, 500mA, 390milliohm	Coilcraft	0.51x0.37
1	L3	UU9.8H-132		Inductor, Common-mode, 1.3mH, 0.7A, 500milliohms	GCI	0.690 * 0.610""
1	T1	G034009		Transformer, Flyback, 2 Primary, 3 Secondary Custom	GCI	1.18x0.886"
1	R15	Std	0	Resistor, Chip, 0 Ohms	Std	603
1	R1	Std	0.1	Resistor, Chip, 0.10 Ohms, 1/16W, 1%	Panasonic	603
1	R16	Std	249	Resistor, Chip, 249 Ohms, 1/16W, 1%	Std	603
1	R5	Std	357	Resistor, Chip, 357 Ohms, 1/16W, 1%	Std	603
2	R12, R20	Std	499	Resistor, Chip, 499 Ohms, 1/16W, 1%	Std	603
1	R17	Std	1K	Resistor, Chip, 1.00K Ohms, 1/16W, 1%	Std	603
1	R22	Std	3.01K	Resistor, Chip, 3.01K Ohms, 1/16W, 1%	Std	603
1	R14	Std	9.09K	Resistor, Chip, 9.09K Ohms, 1/16W, 1%	Std	603
1	R13	Std	10K	Resistor, Chip, 10.0K Ohms, 1/16W, 1%	Std	603
1	R21	Std	20K	Resistor, Chip, 20.0K Ohms, 1/16W, 1%	Std	603
2	R2, R23	Std	24.9K	Resistor, Chip, 24.9K Ohms, 1/16W, 1%	Std	603
1	R18	Std	41.2K	Resistor, Chip, 41.2K Ohms, 1/16W, 1%	Std	603
1	R19	Std	49.9K	Resistor, Chip, 49.9K Ohms, 1/16W, 1%	Std	603
1	R26	Std	102K	Resistor, Chip, 102K Ohms, 1/16W, 1%	Std	603
1	R25	Std	113K	Resistor, Chip, 113K Ohms, 1/16W, 1%	Std	603
2	R4, R24	Std	1M	Resistor, Chip, 1.00M Ohms, 1/16W, 1%	Std	603
1	R11	Std	Open	Resistor, Chip, Open, 1/16W, 1%	Std	603
1	R8	Std	0	Resistor, Chip, 0 Ohms	Std	805
1	R9	Std	10	Resistor, Chip, 10 Ohms, 1/10W, 5%	Std	805
1	R7	Std	20	Resistor, Chip, 20 Ohms, 1/10W, 5%	Std	805
1	R6	Std	49.9K	Resistor, Chip, 49.9K Ohms, 1/10W, 1%	Std	805
1	R3	Std	100K	Resistor, Chip, 100K Ohms, 1/10W, 1%	Std	805
1	R10	Std	0.56	Resistor, Chip, 0.56 Ohms, 1W, 1%	Std	2512
4	J1, J2, J3, J4	ED1514		Terminal Block, 2-pin, 6-A, 3.5mm	OST	0.27 x 0.25""
1	J6	PTC36SAAN		Header, 2-pin, 100mil spacing, (36-pin strip)	Sullins	0.100 x 2
1	J5	PTC36SAAN		Header, 3-pin, 100mil spacing, (36-pin strip)	Sullins	0.100 x 3
1	U4	H11A817A		IC, Optocoupler, 5300V, 80-160% CTR	Fairchild	0.380 x 0.180
1	Q3	MMBT3904LT1		Bipolar, NPN, 40V, 200mA, 225mW	On Semi	SOT-23

1	Q2	IRF7451		MOSFET, N-ch, 150V, 3.6A, 90milliOhms	IR	SO-8
1	Q1	IRF7458		MOSFET, N-ch, 30V, 14A, 8milliOhms	IR	SO-8
1	U3	UCC3809P-2		IC, Economy Primary-Side Controller	Texas Instruments	MSOP-8
1	U5	TLV431ACDBVR		IC, Shunt Regulator, 1.24V Ref, 6V, 10mA, 1%	Texas Instruments	SOT23-5
1	U1	TPS76850QPWP		IC, 1A LDO Regulator, 5V	Texas Instruments	TSSOP-20
1	U2	TPS2370PW		IC, Hot Swap Switch for PoE Power Devices	Texas Instruments	TSSOP8-PW
1	U7	TPS62201DBV		IC, Step-Down Converter, 1.5V, 300mA	Texas Instruments	SOT23-5
1	U6	TPS61045QFN		IC, Adjustable LCD Boost Converter	Texas Instruments	QFN-8
<b>Rev B Changes:</b>						
1. Changed D7 to a 1SMB54AT3						
2. Added part number to T1 and changed pin 3 connection to ground						
3. Changed D8 and D9 to 27V zeners						
4. Changed Q1 to a IRF7458						
5. Changed R10 to a 0.56 ohm						
6. Changed C21 to 680pF (switching frequency changes from 200KHz to 100KHz)						

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