

Filename: PMP8812_RevA_bom.xls						
Date: 02/07/2013						
<b>PMP8812 REV A BOM</b>						
COUNT	REFDES	VALUE	DESCRIPTION	SIZE	PART NUMBER	MFR
1	C31	330pF	Capacitor, Ceramic, 50V, C0G, 10%	603	STD	Std
1	C28	470pF	Capacitor, Ceramic, 100V, X7R, 10%	603	STD	Std
2	C8, C6	1000pF	Capacitor, Ceramic, 100V, X7R, 10%	603	STD	Std
2	C11, C37	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	603	STD	Std
4	C2, C3, C4, C5	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	603	STD	Std
1	C36	0.022uF	Capacitor, Ceramic, 50V, X7R, 10%	603	STD	Std
2	C12, C30	0.1uF	Capacitor, Ceramic, 25V, X7R, 10%	603	STD	Std
5	C13, C14, C32, C33, C34	0.47uF	Capacitor, Ceramic, 16V, X7R, 10%	603	STD	Std
3	C25, C29, C38	1uF	Capacitor, Ceramic, 25V, X7R, 10%	603	STD	Std
0	C35	DNP	Capacitor, Ceramic, 50V, X7R, 10%	603	STD	Std
4	C7, C9, C15, C19	0.1uF	Capacitor, Ceramic, 100V, X7R, 10%	805	STD	Std
2	C1, C10	1000pF	Capacitor, Ceramic, 2KV, X7R, 15%	1210	STD	Std
2	C17, C18	2.2uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	STD	Std
5	C20, C21, C22, C23, C24	22uF	Capacitor, Ceramic, 16V, X7R, 10%	1210	STD	Std
1	C26	2200pF	Capacitor, Ceramic, 2KV, X7R, 15%	1812	STD	Std
1	C27	22uF	Capacitor, Aluminum, 25V, 20%	5x5.8mm	EEE-FK1E220R	Panasonic
1	C16	47uF	Capacitor, Aluminum, 63V, ±20%	0.328 x 0.390 inch	EEE-FK1J470P	Panasonic
4	D11, D12, D14, D20		Diode, LED, Green, 10mA, 2.6mcd	0.114 X 0.049 inch	LN1371G	Panasonic
1	D13		Diode, UltraFast Rectifier, 1-A, 200-V	SMB	MURS120T3G	On Semi
2	D15, D16		Diode, Signal, 300-mA, 75-V, 350-mW	SOD-123	1N4148W-7-F	Diodes
9	D1, D2, D3, D4, D5, D7, D8, D9, D10		Diode, Schottky, 2-A, 100-V	SMB	B2100-13-F	Diodes
1	D17		Diode, Schottky, 7A, 60V	Power DI 5	PDS760	Diodes, Inc
2	D18, D19		Diode, Dual Schottky, 200mA, 30V	SOT323	BAT54SWT1G	On Semi
1	D6		Diode, TVS, 58-V, 1W	SMA	SMAJ58A-13-F	Diodes
4	FB1-4	500	Bead, Ferrite, 2000mA, 60m-ohm	1206	MI1206L501R-10	Steward
2	J1, J2		Connector, Jack, Modular, 8 POS	0.705 x 0.820 inch	5520252-4	AMP
2	J3, J10		Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
7	J4, J5, J6, J7, J8, J9, J11		Header, Male 2-pin, 100mil spacing	0.100 inch x 2	PEC02SAAN	Sullins
1	L1	3.3uH	Inductor, SMT, 1.9A, 80 milliohm	4x4mm	LPS4018-332ML	Coilcraft
0	L2	DNP	Inductor, SMT, 19.2A, 3.52 milliohm	5.3x5.5 mm	XAL5030-331ME	Coilcraft
3	Q1-2 Q7		MOSFET, Pch, -50V, -0.13A, 10 Ohm	SOT23	BSS84LT1C	Infineon
1	Q3		MOSFET, N-Chan, 60V, 17A, 4.7 mOhm	QFN-8 POWER	CSD18533Q5A	TI
1	Q5		MOSFET, NChannel, 150V, 16A, 51 milliohm	Power 56	FDMS86252	Fairchild
2	Q4, Q6		Trans, PNP, 40V, 200mA, 225m-W	SOT23	MMBT3906LT1G	On Semi
1	Q8		MOSFET, N-ch, 30V, 3.6A, 60 milliOhm	SOT23	Si2304DDS	Vishay
1	Q9		Trans, NPN, 40V, 200mA, 225mW	SOT23	MMBT3904LT1G	On Semi
2	R39, R46	0	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R38	4.7	Resistor, Chip, 1/16W, 1%	603	STD	Std

1	R32	40.2	Resistor, Chip, 1/16W, 1%	603	STD	Std
8	R1, R2, R3, R4, R6, R7, R8, R9	75	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R36	332	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R15	1K	Resistor, Chip, 1/16W, 1%	603	STD	Std
2	R20, R16	1.5K	Resistor, Chip, 1/16W, 1%	603	STD	Std
2	R47, R100	2K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R44	2.49K	Resistor, Chip, 1/16W, 1%	604	STD	Std
3	R11, R18, R50	3.01K	Resistor, Chip, 1/16W, 1%	605	STD	Std
1	R45	3.65K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R27	6.19K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R10	8.87K	Resistor, Chip, 1/16W, 1%	603	STD	Std
5	R29, R33, R37, R43, R48	10K	Resistor, Chip, 1/16W, 1%	603	STD	Std
3	R51, R101, R102	10.7K	Resistor, Chip, 1/16W, 1%	603	STD	Std
4	R12, R13, R19, R14	15K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R40	20K	Resistor, Chip, 1/16W, 1%	603	STD	Std
2	R21, R23	24.9K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R35	28.0K	Resistor, Chip, 1/16W, 1%	603	STD	Std
2	R41, R42	30.1K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R28	34K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R49	41.2K	Resistor, Chip, 1/16W, 1%	603	STD	Std
2	R5, R31	100K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R17	392K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R24	750K	Resistor, Chip, 1/16W, 1%	603	STD	Std
1	R25	10	Resistor, Chip, 1/10W, 5%	805	STD	Std
1	R26	63.4	Resistor, Chip, 1/10W, 1%	805	STD	Std
1	R22	39K	Resistor, Chip, 1/4W, 5%	1206	STD	Std
1	R34	0.09	Resistor, Chip, 1/2W, 1%	2010	STD	Std
1	R30	47	Resistor, Chip, 1W, 5%	2512	STD	Std
1	S1		Switch, SPST, PB Momentary, Sealed Washable	0.245 X 0.251 inch	KT11P2JM34LFS	C & K
6	TP1, TP3, TP5, TP8, TP11, TP12		Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
2	TP14, TP17		Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
5	TP2, TP4, TP10, TP15, TP16		Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
3	TP6, TP9, TP13		Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
1	TP7		Test Point, SM, 0.150 x 0.090	0.185 x 0.135 inch	5016	Keystone
1	T1		Transformer, PoE Plus Gigabit Transfomer Modules	S024	749022011	Würth Electronics
1	T2		Transformer, SMT For PoE/PD, 25W, 12V	0.810 x 1.181 inch	POE300F-12L	Coilcraft
1	T4		Transformer, Gate Drive	9.7mm x 7.8mm	LTC0266-50	LinkCom
5	U1, U2, U3, U4, U6		Photocoupler, 300-600% CTR, 3.75KV Isolation	MF4	PC357N4J000F	Sharp
1	U7		IC, Photocoupler, 3750VRMS, 80-160% CTR	MF4	TCMT1107	Vishay
1	U8		IC, Shunt Regulator, 35V, 100mA, 1%	SOT23-5	TL431ACDBVR	TI
1	U5		IC, IEEE 802.3 AT PoE Interface & Green Mode DC-DC Controller	HTSSOP	TPS23752PWP	TI

## IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products (also referred to herein as "components") are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

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

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

TI does not warrant or represent that any license, either express or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license 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 significant portions of TI 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. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

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

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed a special agreement specifically governing such use.

Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have **not** been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

### Products

Audio	<a href="http://www.ti.com/audio">www.ti.com/audio</a>
Amplifiers	<a href="http://amplifier.ti.com">amplifier.ti.com</a>
Data Converters	<a href="http://dataconverter.ti.com">dataconverter.ti.com</a>
DLP® Products	<a href="http://www.dlp.com">www.dlp.com</a>
DSP	<a href="http://dsp.ti.com">dsp.ti.com</a>
Clocks and Timers	<a href="http://www.ti.com/clocks">www.ti.com/clocks</a>
Interface	<a href="http://interface.ti.com">interface.ti.com</a>
Logic	<a href="http://logic.ti.com">logic.ti.com</a>
Power Mgmt	<a href="http://power.ti.com">power.ti.com</a>
Microcontrollers	<a href="http://microcontroller.ti.com">microcontroller.ti.com</a>
RFID	<a href="http://www.ti-rfid.com">www.ti-rfid.com</a>
OMAP Applications Processors	<a href="http://www.ti.com/omap">www.ti.com/omap</a>
Wireless Connectivity	<a href="http://www.ti.com/wirelessconnectivity">www.ti.com/wirelessconnectivity</a>

### Applications

Automotive and Transportation	<a href="http://www.ti.com/automotive">www.ti.com/automotive</a>
Communications and Telecom	<a href="http://www.ti.com/communications">www.ti.com/communications</a>
Computers and Peripherals	<a href="http://www.ti.com/computers">www.ti.com/computers</a>
Consumer Electronics	<a href="http://www.ti.com/consumer-apps">www.ti.com/consumer-apps</a>
Energy and Lighting	<a href="http://www.ti.com/energy">www.ti.com/energy</a>
Industrial	<a href="http://www.ti.com/industrial">www.ti.com/industrial</a>
Medical	<a href="http://www.ti.com/medical">www.ti.com/medical</a>
Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
Space, Avionics and Defense	<a href="http://www.ti.com/space-avionics-defense">www.ti.com/space-avionics-defense</a>
Video and Imaging	<a href="http://www.ti.com/video">www.ti.com/video</a>

### TI E2E Community

[e2e.ti.com](http://e2e.ti.com)