

PMP20931 REV B Bill of Materials						
Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C24	1	100pF	C1608C0G1H101J080AE	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C10	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C1, C2, C3, C4	4	1000pF	C1608X7R2A102K080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
C15	1	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C5, C8	2	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	0603
C25	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
C20, C23	2	0.1uF	C1608X7R1E104K080AA	TDK	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C27	1	0.47uF	GRM188R71C474KA88D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, 0603	0603
C21	1	1uF	C1608X7R1C105K080AC	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
C22	1	100pF	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100 pF, 250 V, +/- 5%, C0G/NP0, 0805	0805
C14, C26	2	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
C16, C17, C18	3	100uF	C3225X5R0J107M250AC	TDK	CAP, CERM, 100 uF, 6.3 V, +/- 20%, X5R, 1210	1210
C12, C13	2	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C6, C7	2	1000pF	1812GC102KAT1A	AVX	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
C9, C28	2	2200pF	C4532X7R3D222K130KA	TDK	CAP, CERM, 2200 pF, 2000 V, +/- 10%, X7R, 1812	1812
C19	1	10uF	EEE-FK1C100R	Panasonic	CAP, AL, 10 uF, 16 V, +/- 20%, 1.35 ohm, AEC-Q200 Grade 2, SMD	SMT Radial B
C11	1	22uF	EEE-FK2A220P	Panasonic	CAP, AL, 22uF, 100V, +/-20%, 1.3 ohm, SMD	SMT Radial F
D1, D2, D3, D4, D5, D6, D7, D8, D9	9		B1100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 1 A, SMA	SMA
D10, D11, D13	3		MMSD4148T1G	ON Semiconductor	Diode, Switching, 100V, 0.2A, SOD-123	SOD-123
D12	1		MURA120T3G	ON Semiconductor	Diode, Ultrafast, 200V, 1A, SMA	SMA
D14	1		BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOT-23	SOT-23
D15	1	58V	SMAJ58A	Diodes Inc.	Diode, TVS, Uni, 58V, 400W, SMA	SMA
J1, J2	2		1-406541-1	TE Connectivity	RJ-45, No LED, tab up, R/A, TH	16.26x14.54x15.75
J3, J4	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L1, L2, L3, L4	4	220 ohm	MPZ1608S221A	TDK	Ferrite Bead, 220 ohm @ 100 MHz, 2.2 A, 0603	0603
L5	1	3.3uH	LPS4018-332MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 3.3uH, 1.9A, 0.08 ohm, SMD	LPS4018
Q1	1		MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
Q2	1		CSD17579Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 20 A, DNH0008A (VSONP-8)	DNH0008A
Q3	1		FDS86242	Fairchild Semiconductor	MOSFET, N-CH, 150V, 4.1A, SOIC-8	SOIC-8
R11	1	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
R5	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
R1, R2, R3, R4, R12	5	75.0	CRCW060375R0FKEA	Vishay-Dale	RES, 75.0, 1%, 0.1 W, 0603	0603
R26	1	90.9	CRCW060390R9FKEA	Vishay-Dale	RES, 90.9 ohm, 1%, 0.1W, 0603	0603
R19	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R16	1	237	CRCW0603237RFKEA	Vishay-Dale	RES, 237 ohm, 1%, 0.1W, 0603	0603
R21	1	348	CRCW0603348RFKEA	Vishay-Dale	RES, 348 ohm, 1%, 0.1W, 0603	0603
R25	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R22	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00k ohm, 1%, 0.1W, 0603	0603
R6, R27	2	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R17, R24	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R20	1	20.5k	CRCW060320K5FKEA	Vishay-Dale	RES, 20.5k ohm, 1%, 0.1W, 0603	0603
R10	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R14	1	59.0k	CRCW060359K0FKEA	Vishay-Dale	RES, 59.0k ohm, 1%, 0.1W, 0603	0603
R18	1	80.6k	CRCW060380K6FKEA	Vishay-Dale	RES, 80.6k ohm, 1%, 0.1W, 0603	0603
R13	1	392k	CRCW0603392KFKEA	Vishay-Dale	RES, 392k ohm, 1%, 0.1W, 0603	0603
R9	1	20	CRCW080520R0JNEA	Vishay-Dale	RES, 20 ohm, 5%, 0.125W, 0805	0805

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R7	1	39k	CRCW080539K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.125 W, 0805	0805
R23	1	0.47	ERJ-8RQFR47V	Panasonic	RES, 0.47, 1%, 0.25 W, 1206	1206
R8	1	3.3	CRCW12063R30JNEA	Vishay-Dale	RES, 3.3 ohm, 5%, 0.25W, 1206	1206
R15	1	75	CRCW201075R0JNEF	Vishay-Dale	RES, 75, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
T1	1		H2019FNLT	Pulse Engineering	Transformer, 350uH, SMT	358x236x500mil
T2	1		LDT0959-50	Linkcom Manufacturing Co.	Transformer, 133 uH, SMT	14x15.1mm
U2	1		HMHA2801A	Fairchild Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	Mini Flat Package
U1	1		TPS23753APWR	Texas Instruments	IEEE 802.3-2005 PoE Interface and Isolated Converter Controller with Enhanced ESD Ride-Through, -40 to 125 degC, 14-pin SOP (PW14), Green (RoHS & no Sb/Br)	PW0014A
U3	1		TLV431AIDBVR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 40 to 85 degC, 5-pin SOT-23 (DBV), Green (RoHS & no Sb/Br)	DBV0005A

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