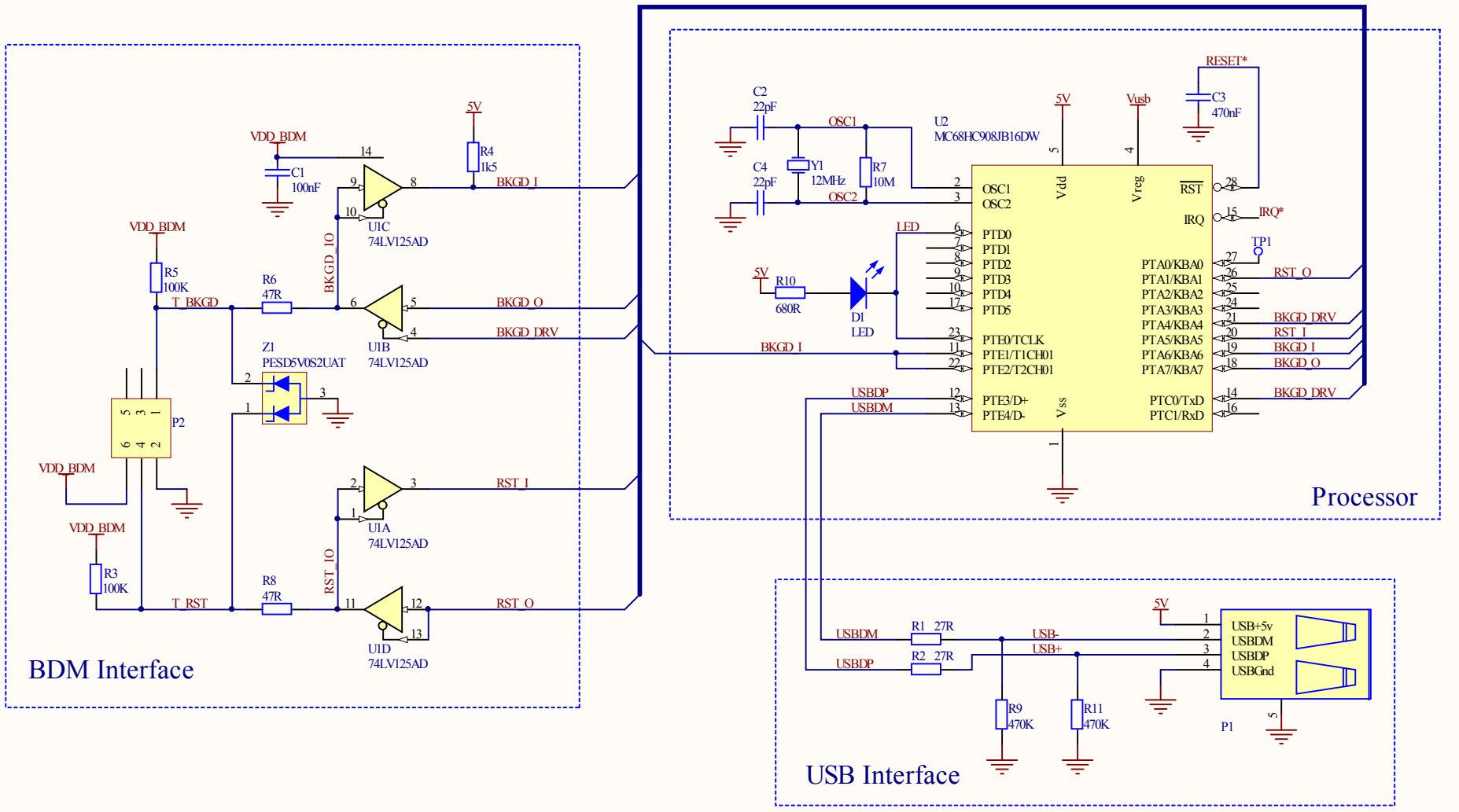
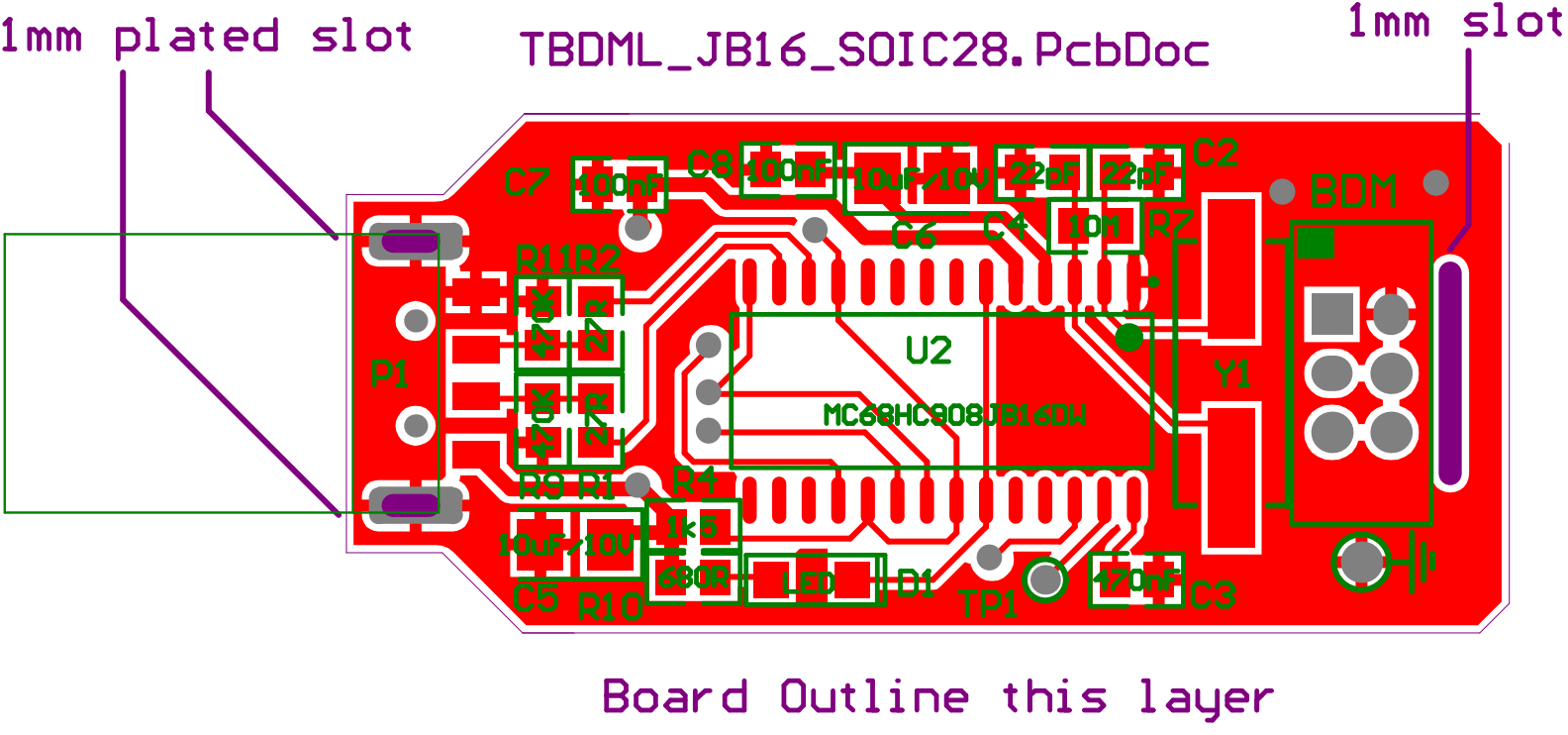


Notes:
* Z1 is a protection device and may be omitted.

Revision 1.6
* Added TP1, PUP on BDM_RST
* Layout re-done
* PNs added

Title	TBDML_SOIC28_JB16(Minimal)	
Size: A4	Number	Revision: 1.6
Date:	28/10/2009	Sheet of
File:	F:\USBDM\..\TBDML_JB16_SOIC28.SchDoc	Drawn By:

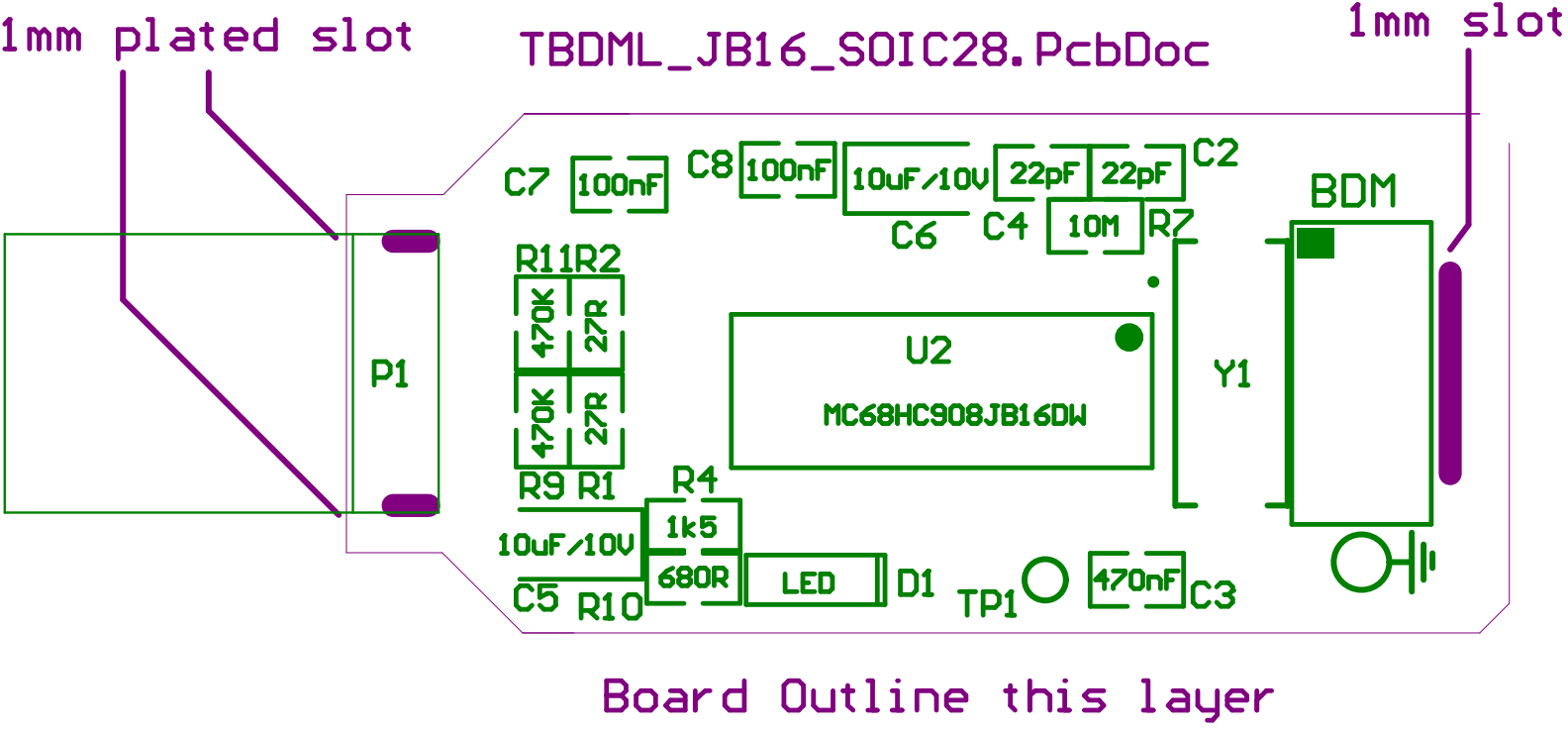

1mm plated slot
TBDML_JB16_SOIC28.PcbDoc
1mm slot
C7
100nF
C8
100nF
10uF/10V
22pF
22pF
C2
C6
C4
10M
R7
BDM
R11
R2
4k7
4k7
4k7
4k7
P1
U2
MC68HC908JB16DW
Y1
R9
R1
R4
1k5
10uF/10V
680R
LED
D1
TP1
470nF
C3
C5
R10
Board Outline this layer

1mm slot

TBDML_JB16_SOIC28.PcbDoc

1mm plated slot

Board Outline this layer


1mm plated slot
TBDML_JB16_SOIC28.PcbDoc
1mm slot
C7
100nF
C8
100nF
10uF/10V
C6
22pF
C4
22pF
C2
10M
R7
BDM
R11
R2
470K
27R
470K
27R
P1
U2
MC68HC908JB16DW
Y1
R9
R1
R4
1k5
10uF/10V
C5
680R
R10
LED
D1
TP1
470nF
C3
Board Outline this layer

1mm slot
TBDML_JB16_SOIC28.PcbDoc
1mm plated slot
TBDML_JB16(Min) V1.6
Z1
U1
100K
R5
47R
R6
47R
R8
100K
R3
100nF
C1
74LV125AD
Board Outline this layer

Bill of Materials

TBDML_SOIC28_JB16(Minimal)

Source Data From: TBDML_JB16_SOIC28[Minimal].PrjPCB

Project: TBDML_JB16_SOIC28[Minimal].PrjPCB

Variant: None

Creation Date: 28/10/2009 5:59:38 PM

Print Date: 28-Oct-09 5:59:40 PM

Footprint	Comment	Farnell PN	Digikey	Designator	Description	Quantity
CCNP2012-0805	100nF	8820120		C1, C7, C8	Capacitor SMT	3
CCNP2012-0805	22pF	1414676		C2, C4	Capacitor SMT	2
CCNP2012-0805	470nF	1288279		C3	Capacitor SMT	1
TC3528-1411	10uF/10V	9527745		C5, C6	Capacitor Polarized (SMT - Case A)	2
LED-SMT- Altronic 1206	LED	5790852		D1	LED	1
USB_TypeA M - SMT2	USB_CONNECTOR	1308875		P1	USB Connector	1
HDR2X3	Transition 3x2	1188909		P2	2x3 Transition or male header	1
CR2012-0805	27R	9334246		R1, R2	Resistor SMT	2
CR2012-0805	100K	9332405		R3, R5	Resistor SMT	2
CR2012-0805	1k5	1632464		R4	Resistor SMT	1
CR2012-0805	47R	1632490		R6, R8	Resistor SMT	2
CR2012-0805	10M	9236392		R7	Resistor SMT	1
CR2012-0805	470K	9333282		R9, R11	Resistor SMT	2
CR2012-0805	680R	9334785		R10	Resistor SMT	1
SO-14_L	74LV125AD	9592504	296-1674-5-ND	U1	Quad 3-state Buffer	1
751F-03_N	MC68HC908JB16DW	1148430		U2	8-Bit Microcontroller	1
XTAL_SMT	12MHz	1652551		Y1	Crystal (Low profile SMT)	1
SOT23	PESD5V0S2UAT	8737738		Z1	Dual Unipolar Protection Device (5V)	1
						26

Approved

Notes