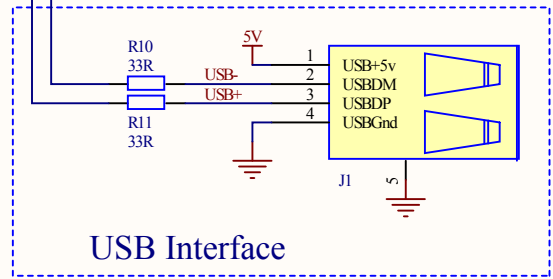


NOTE:  
T1 SN74LV125 devices must be used since they are 5V I/O tolerant.  
Similar devices from other manufacturers may not be.

Revision:  
1.0 1st Release  
1.1 Changes R7 to 1M, no PCB changes  
1.2 Added RST\_DRV  
1.3 SWD Interface

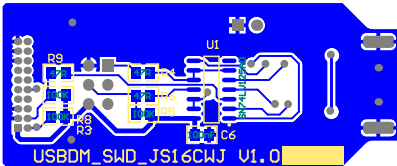
Notes:  
JP1 - Tie to ground to force ROMBoot Loader Mode. Only for initial programload.  
  
This version only supports HCS12, HCS08, & CFV1, Kinetis (SWD)  
It does not support RS08 or CFV2,3,4 devices  
It does not supply target power.  
It does not have external target reset detection.



Title USBDM_SWD_JS16CWJ.SchDoc			
Size A4	Number	Revision 1.0	
Date:	6/09/2012	Sheet of	
File:	C:\Peter\USBDM_SWD_JS16CWJ.SchDoc	Drawn By:	

## Board Outline this layer

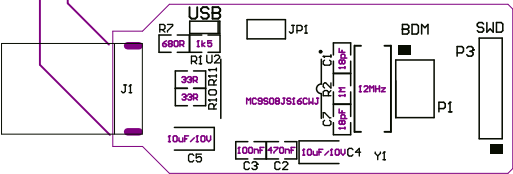




USBDM\_SWD\_JS16CWJ V1.0

1mm plated slot

Board Outline this layer



USBDM\_SWD\_JS16CWJ.PcbDoc

R9  
47R

100K

100K

R8  
R3

47R

R4

47R

R6

100K

R5

U1



100nF

C6

SN74LV125AD

USBDM\_SWD\_JS16CWJ V1.0



## USBDM\_SOIC20\_JS16(Minimal)

/J.PRJPCB

/J.PRJPCB

None

11:03:42 PM

11:03:45 PM

Footprint	Comment	Farnell PN	Digikey	Designator	Description	Quantity
CCNP2012-0805	18pF	1414673		C1, C7	Capacitor SMT	2
CCNP2012-0805	470nF	1288279		C2	Capacitor SMT	1
CCNP2012-0805	100nF	8820120		C3, C6	Capacitor SMT	2
TC3528-1411	10uF/10V	9527745		C4, C5	Capacitor Polarized (SMT - Case A)	2
LED-SMT-2	LED Green	5790852		D1	LED (Green SMT)	1
USB_TypeA M - SMT2	USB_CONNECTOR	1308875		J1	USB Connector	1
HDR1X2a	PIN2X1			JP1	2-pin male header	1
HDR2X3	Transition 3x2	1188909		P1	2x3 male header	1
MHDR2X10	MHDR2X10			P3	Header, 10-Pin, Dual row .05"	1
CR2012-0805	1k5	1632464		R1	Resistor SMT	1
CR2012-0805	1M	9236392		R2	Resistor SMT	1
CR2012-0805	100K	9332405		R3, R5, R8	Resistor SMT	3
CR2012-0805	47R	1632490		R4, R6, R9	Resistor SMT	3
CR2012-0805	680R	9334785		R7	Resistor SMT	1
CR2012-0805	33R	1631399		R10, R11	Resistor SMT	2
SO-14_L	SN74LV125AD	9592504	296-1674-5-ND	U1	Quad 3-state Buffer	1
SO-G20	MC9S08JS16CWJ	1704517		U2	Microcontroller with USB	1
XTAL_SMT	12MHz	1652551		Y1	Crystal (Low profile SMT)	1

## Notes

26