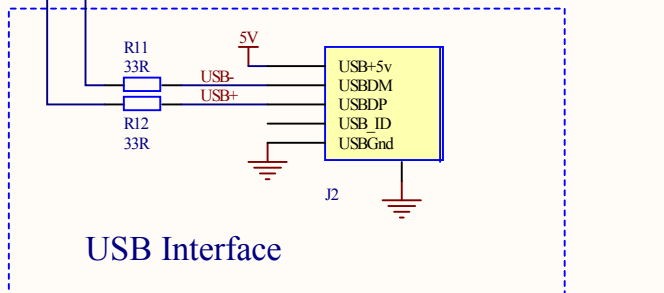


Notes:  
 BL - Tie to ground to force ROMBoot Loader Mode. Only for initial programload.  
 ICP Header - BDM interface used for debugging firmware. May be omitted.  
 BDM/JTAG switch - Coldfire only - BDM (normal debug) / JTAG (unsecure)  
 Currently DE\* & TRST\* are unused by software so associated components may be omitted.

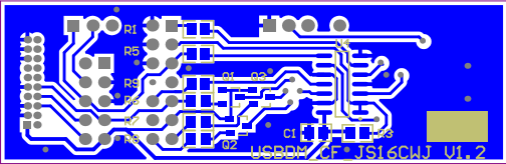
This version only supports Kinetis, MC56F800xx and Coldfire V2-3 devices.  
 It does not support RS08, HCS08, HCS12 or Coldfire V1.  
 It does not supply target power.

Revision:  
 - 1.1 1st Release  
 - 1.2 Added Kinetis connector

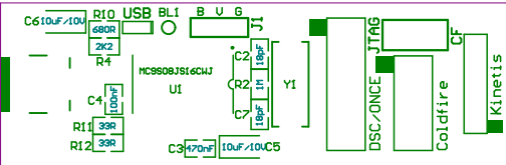


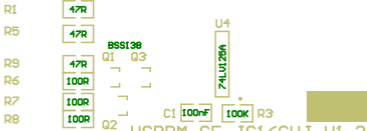
Title		USBDM_CF_JS16CWJ.SchDoc		1.2	
Size	A4	Number		Revision	
Date:	12/06/2011	Sheet of			
File:	C:\Peter\USBDM_CF_JS16CWJ.SchDoc	Drawn By:			





# Board Outline Mech 1





# Bill of Materials

USBDM\_JS16\_CF\_SOIC20(Minimal)

Source Data From:		USBDM_CF_JS16CWJ.PRJPCB			
Project:		USBDM_CF_JS16CWJ.PRJPCB			
Variant:		None			
Creation Date:	12/06/2011	12:07:22 AM			
Print Date:	12-Jun-11	12:07:25 AM			

Footprint	Comment	Farnell PN	Digikey	Designator	Description	Quantity
CCNP2012-0805	100nF	8820120		C1, C4	Capacitor SMT	2
CCNP2012-0805	18pF	1414673		C2, C7	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-2	LED Green	5790852		D1	LED (Green SMT)	1
USB_Mini - SMT2	USB_MINI_CONNECTOR	1363522		J2	USB Mini-B Connector	1
HDR2X5	Header 5X2	8395918		P1	Header, 5-Pin, Dual row	1
HDR2X7	Header 7X2	3816266		P2	Header, 7-Pin, Dual row	1
MHDR2X10	MHDR2X10			P3	Header, 10-Pin, Dual row	1
SOT23-1	BSS138	1467960		Q1, Q2, Q3	N-Channel Enhancement Mode Vertical DMOS FET	3
CR2012-0805	47R	1653007		R1, R5, R9	Resistor	3
CR2012-0805	1M	9236392		R2	Resistor SMT	1
CR2012-0805	100K	1652905		R3	Resistor	1
CR2012-0805	2K2	9334149		R4	Resistor	1
CR2012-0805	100R	1469862		R6, R7, R8	Resistor	3
CR2012-0805	680R	9334785		R10	Resistor SMT	1
CR2012-0805	33R	1631399		R11, R12	Resistor SMT	2
SW-SLIDE-MIN-PCB	SW-PCB-MIN			S1	Small PCB switch/Jumper	1
SO-G20	MC9S08JS16CWJ	1704517		U1	Microcontroller with USB	1
751A-03_N	74LV125A	9592504		U4	Quad 3-State Non-Inverting Buffer (F1013776)	1
XTAL_SMT	12MHz	1652551		Y1	Crystal (Low profile SMT)	1
						31

Approved		Notes				