MSP430 SMCLK

From MSP430FR5739 DataSheet pg 85

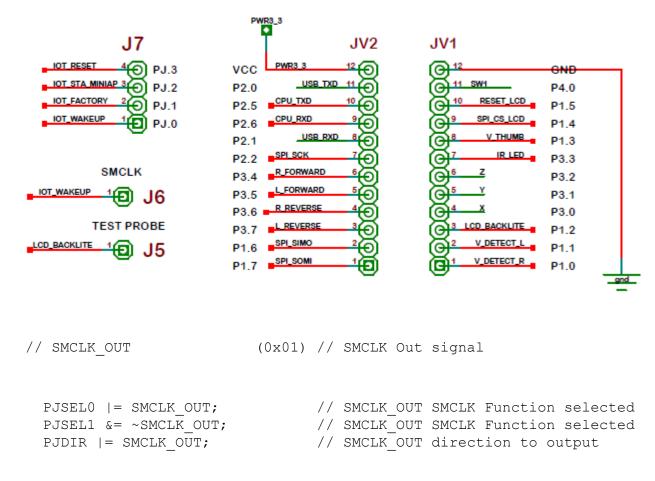
Table 55. Port PJ (PJ.0 to PJ.3) Pin Functions

PIN NAME (PJ.x)	x	FUNCTION	CONTROL BITS/ SIGNALS (1)		
			PJDIR.x	PJSEL1.x	PJSEL0.x
PJ.0/TDO/TB0OUTH/SMCLK/CD6	0	PJ.0 (I/O) ⁽²⁾	I: 0; O: 1	0	0
		TDO (3)	Х	Х	Х
		TB0OUTH	0	0	1
		SMCLK	1		
		CD6	Х	1	1
PJ.1/TDI/TCLK/TB1OUTH/MCLK/CD7	1	PJ.1 (I/O) ⁽²⁾	I: 0; O: 1	0	0
		TDI/TCLK (3) (4)	Х	Х	Х
		TB10UTH	0	0	1
		MCLK	1		
		CD7	Х	1	1
PJ.2/TMS/TB2OUTH/ACLK/CD8	2	PJ.2 (I/O) (2)	I: 0; O: 1	0	0
		TMS (3) (4)	Х	Х	Х
		TB2OUTH	0	0	1
		ACLK	1		
		CD8	Х	1	1
PJ.3/TCK/CD9	3	PJ.3 (I/O) (2)	I: 0; O: 1	0	0
		TCK (3) (4)	Х	Х	Х
		CD9	Х	1	1

- (1) X = Don't care
- (2) Default condition
- (3) The pin direction is controlled by the JTAG module. JTAG mode selection is made by the SYS module or by the Spy-Bi-Wire four-wire entry sequence. PJSEL1.x and PJSEL0.x have no effect in these cases.
- (4) In JTAG mode, pullups are activated automatically on TMS, TCK, and TDI/TCLK. PJREN.x are do not care.

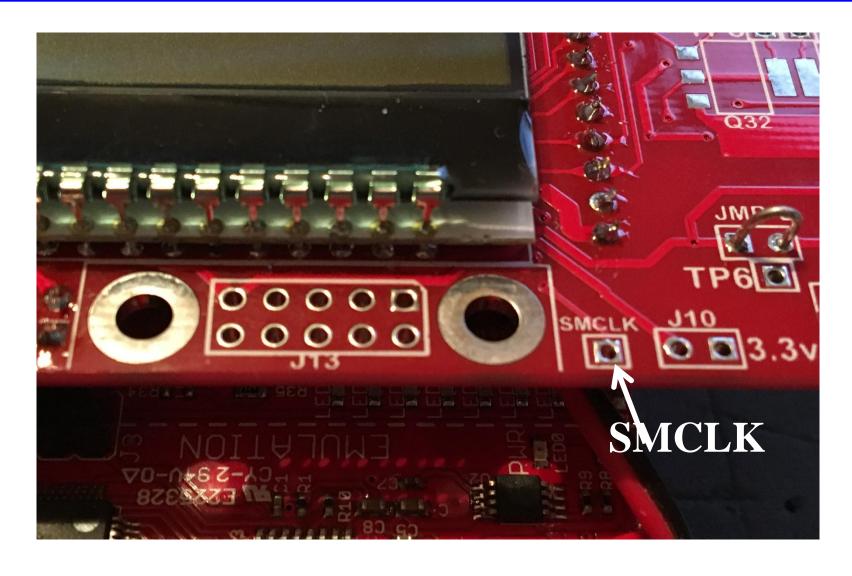
Schematic to Code

Interconnect



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Location on the Board



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Init Port J

```
void Init PortJ(char clock iot){
  PJSEL0 = 0x00;
                           // Port Pin set as I/0
 PJSEL1 = 0x00;
                              // Port Pin set as I/0
  PJDIR = 0 \times 00;
                           // Set Port Pin direction to input
  if(clock_iot){
[add code for SMCLK selected]
 }else{
[add code for IOT WAKEUP selected]
```