Date: 02-Nov-15

cCARD Pinout: F28377D (180pin)

HSEC Pinout: 2.12

	HSEC pin	MCU pin	Most compatible use - HSEC cCARD standard	Most compatible use - HSEC cCARD standard	MCU pin	HSEC pin	
	1	GPIO-71 **	JTAG-EMU1	JTAG-EMU0	GPIO-70 **	2	
	3	TMS	JTAG-TMS	JTAG-TRSTn	TRSTn	4	
	5	TCK	JTAG-TCK	JTAG-TDO	TDO	6	
	7		GND	JTAG-TDI	TDI	8	
Analog	9	ADC-A0, DAC	ADC1 (and/or DACA)	GND		10	
	11	ADC-A1, DAC	ADC1 (and/or DACB)	ADC2	ADC-B0	12	Analog
	13		GND	ADC2	ADC-B1	14	
	15	ADC-A2, COMP+	ADC1 (and/or CMPIN+)	GND		16	
	17	ADC-A3	ADC1	ADC2	ADC-B2, COMP+	18	
	19		GND	ADC2	ADC-B3	20	
	21	ADC-A4, COMP+	ADC1 (and/or CMPIN+)	GND		22	
	23	ADC-A5	ADC1	ADC2	ADC-B4	24	
	25	ADCIN14, COMP+	ADC (and/or CMPIN+)	ADC2	ADC-B5	26	
	27	ADCIN15	ADC	ADC	ADC-D0, COMP+	28	
	29		GND	ADC	ADC-D1	30	
	31	ADC-C2, COMP+	ADC	Rsv		32	
	33	ADC-C3	ADC	ADC	ADC-D2, COMP+	34	
	35		GND	ADC	ADC-D3	36	
	37	ADC-C4, COMP+	ADC	GND		38	
	39	ADC-C5	ADC	ADC	ADC-D4	40	
	41		Rsv	ADC	ADC-D5	42	
	43		VREFLO on certain MCU	Rsv		44	
	45	All VREFHIs *	VREFHI on certain MCU	GND		46	
	47		GND	5V0		48	
Digital	49	GPIO-00	PWM1A	PWM3A	GPIO-04	50	Digital
	51	GPIO-01	PWM1B	PWM3B	GPIO-05	52	
	53	GPIO-02	PWM2A	PWM4A	GPIO-06	54	
	55	GPIO-03	PWM2B	PWM4B	GPIO-07	56	
	57	GPIO-08	PWM5A	PWM7A or TZ1	GPIO-12	58	
	59	GPIO-09	PWM5B	PWM7B or TZ2	GPIO-13	60	
	61	GPIO-10	PWM6A	PWM8A or TZ3	GPIO-14	62	
	63	GPIO-11	PWM6B	PWM8B or TZ4	GPIO-15	64	
	65		GND	Rsv		66	
	67	GPIO-16	SPISIMOA	QEP1A (McBSP-MDXA)	GPIO-20	68	
	69	GPIO-17	SPISOMIA	QEP1B (McBSP-MDRA)	GPIO-21	70	
	71	GPIO-18	SPICLKA	QEP1S (McBSP-MFSXA)	GPIO-22	72	
	73	GPIO-19	SPISTEA	QEP1I (McBSP-MCLKXA)	GPIO-23	74	
	75	GPIO-24	CAP1 or SPISIMOB	SCIRXA/UARTRXA	GPIO-28	76	
	77	GPIO-25	CAP2 or SPISOMIB	SCITXA/UARTTXA	GPIO-29	78	
	79	GPIO-26	CAP3 or SPICLKB	CANRXA	GPIO-30	80	
	81	GPIO-27	CAP4 or SPISTEB	CANTXA	GPIO-31	82	
	83		GND	5V0		84	
	85	GPIO-32	I2CSDAA	GPIO	GPIO-34	86	
	87	GPIO-33	I2CSCLA	GPIO	GPIO-39	88	
	89	GPIO-40	GPIO	GPIO	GPIO-44	90	
	91	GPIO-41	GPIO	GPIO	GPIO-45	92	
	93	GPIO-42 ***	GPIO	GPIO	GPIO-46 ***	94	
	95	GPIO-43 ***	GPIO	GPIO	GPIO-47 ***	96	
	97		GND	5V0		98	
	99	GPIO-48	SD-D1	QEP2A or GPIO	GPIO-54	100	
	101	GPIO-49	SD-C1	QEP2B or GPIO	GPIO-55	102	
	103	GPIO-50	SD-D2	QEP2S or GPIO	GPIO-56	104	
	105	GPIO-51	SD-C2	QEP2I or GPIO	GPIO-57	106	
	107	GPIO-52	SD-D3	GPIO (McBSP-MCLKRA)	GPIO-58	108	
	109	GPIO-53	SD-C3	GPIO (McBSP-MFSRA)	GPIO-59	110	
	111		GND	5V0		112	
	113		Rsv	Rsv		114	
	115		Rsv	Rsv		116	
	117		Rsv	Rsv		118	
	119		Rsv	Device Reset (Active low)	XRSn	120	
	121	GPIO-35	GPIO	GPIO	GPIO-36	122	
	123	GPIO-37	GPIO	GPIO	GPIO-38	124	
	125	GPIO-60	GPIO	GPIO	GPIO-61	126	
	127	GPIO-62	GPIO	GPIO	GPIO-63	128	
	129	GPIO-64	GPIO	GPIO	GPIO-65	130	
	131	GPIO-66	GPIO	GPIO	GPIO-67	132	
	133	GPIO-68	GPIO	GPIO	GPIO-69	134	
	135		GND	Rsv		136	
	137	GPIO-70	GPIO	GPIO	GPIO-71	138	
	139	GPIO-72	GPIO	GPIO	GPIO-73	140	
	141	GPIO-74	GPIO	GPIO	GPIO-75	142	
	143	GPIO-76	GPIO	GPIO	GPIO-77	144	
	145	GPIO-78	GPIO	GPIO	GPIO-79	146	
	147	GPIO-80	GPIO	GPIO	GPIO-81	148	
	149	GPIO-82	GPIO	GPIO	GPIO-83	150	
	151	GPIO-84	GPIO	GPIO	GPIO-85	152	
	153	GPIO-86	GPIO	GPIO	GPIO-87	154	
	155	GPIO-88	GPIO	GPIO	GPIO-89	156	
	157		GND	5V0		158	
	159	GPIO-90	GPIO	GPIO	GPIO-91	160	
	161	GPIO-92	GPIO	GPIO	GPIO-93	162	
	163	GPIO-94	GPIO	GPIO	GPIO-133	164	
	165	GPIO-120 ***	GPIO	GPIO	GPIO-121 ***	166	
	167	GPIO-161	GPIO	GPIO	GPIO-162	168	
	169	GPIO-163	GPIO	GPIO	GPIO-164	170	
	171		Rsv	Rsv		172	
	173		Rsv	Rsv		174	
	175		Rsv	Rsv		176	
	177		Rsv	Rsv		178	
	179		GND	5V0		180	

* Switches may be altered to connect this HSEC pin to the MCU's VREFHI inputs

** 0ohm resistors can be removed in order to tie GPIO-70 and 71 to EMU0 and EMU1

*** Can be dedicated to on-card USB or brought through the connector via jumpers on the cCARD