

Date:		cCARD Pinout:				F28388D				HSEC Pinout:	
20May2020										2.16	
HSEC pin	MCU pin	MCU Usage for Std	HSEC cCARD standard	HSEC cCARD standard	MCU Usage for Std	MCU pin	HSEC pin				
1			JTAG-EMU1	JTAG-EMU0			2				
3	TMS		JTAG-TMS	JTAG-TRSTn		TRSTn	4				
5	TCK		JTAG-TCK	JTAG-TDO		TDO	6				
7	VSS		GND	JTAG-TDI			8				
9	ADC-A0		ADC1 (and/or DACA)	GND		VSS	10				
11	ADC-A1		ADC1 (and/or DACB)	ADC2		ADC-B0	12				
13			GND	ADC2		ADC-B1	14				
15	ADC-A2		ADC1 (and/or CMPIN+)	GND		VSS	16				
17	ADC-A3		ADC1	ADC2		ADC-B2	18				
19	VSS		GND	ADC2		ADC-B3	20				
21	ADC-A4		ADC1 (and/or CMPIN+)	GND		VSS	22				
23	ADC-A5		ADC1	ADC2		ADC-B4	24				
25	ADCIN14		ADC (and/or CMPIN+)	ADC2		ADC-B5	26				
27	ADCIN15		ADC	ADC		ADC-D0	28				
29			GND	ADC		ADC-D1	30				
31	ADC-C2		ADC	Rsv			32				
33	ADC-C3		ADC	ADC		ADC-D2	34				
35	VSS		GND	ADC		ADC-D3	36				
37	ADC-C4		ADC	GND		VSS	38				
39	ADC-C5		ADC	ADC		ADC-D4	40				
41			Rsv	ADC		ADC-D5	42				
43			VREFLO	Rsv			44				
45	All VREFHIs *		VREFHI	GND		VSS	46				
47	VSS		GND	SVO			48				
49	GPIO-00		PWM1A	PWM3A		GPIO-04	50				
51	GPIO-01		PWM1B	PWM3B		GPIO-05	52				
53	GPIO-02		PWM2A	PWMA		GPIO-06	54				
55	GPIO-03		PWM2B	PWMB		GPIO-07	56				
57	GPIO-08		PWMA	PWMA or TZ1		GPIO-12	58				
59	GPIO-09		PWMB	PWMB or TZ2		GPIO-13	60				
61	GPIO-10		PWMA	PWMA or TZ3		GPIO-14	62				
63	GPIO-11		PWMB	PWMB or TZ4		GPIO-15	64				
65			GND	Rsv			66				
67	GPIO-16		SPISIMO	QEPA or McBSP-MDX		GPIO-20	68				
69	GPIO-17		SPISOMI	QEPB or McBSP-MDR		GPIO-21	70				
71	GPIO-18		SPICLK	QEPA or McBSP-MCLKX		GPIO-22	72				
73	GPIO-19		SPISTE	QEPI or McBSP-MFSX		GPIO-23	74				
75	GPIO-24		eCAP or SPISIMO	SCRX/UARTX		GPIO-28##	76				
77	GPIO-25		eCAP or SPISOMI	SCITX/UARTX		GPIO-29##	78				
79	GPIO-26		eCAP or SPICLK	CANRX		GPIO-30	80				
81	GPIO-27		eCAP or SPISTE	CANTX		GPIO-31**	82				
83	VSS		GND	SVO			84				
85	GPIO-32		I2CSDA	GPIO		GPIO-34**	86				
87	GPIO-33		I2C_SCL	GPIO		GPIO39	88				
89	GPIO40		GPIO	GPIO		GPIO125	90				
91	GPIO41		GPIO	GPIO		GPIO45	92				
93	GPIO96		GPIO	GPIO		GPIO97	94				
95	GPIO98		GPIO	GPIO		GPIO99	96				
97	VSS		GND	SVO			98				
99	GPIO-48		SD-D	QEPA		GPIO-54	100				
101	GPIO-49		SD-C	QEPB		GPIO-55	102				
103	GPIO-50		SD-D	QEPA		GPIO-56	104				
105	GPIO-51		SD-C	QEPI		GPIO-57	106				
107	GPIO-52		SD-D	GPIO or McBSP-MCLKR		GPIO-58	108				
109	GPIO-53		SD-C	GPIO or McBSP-MFSR		GPIO-59	110				
111	VSS		GND	SVO			112				
113			Rsv	Rsv			114				
115			Rsv	Rsv			116				
117			Rsv	VDD		VDD	118				
119	VDDIO		VDDIO	Device Reset (Active low)		XRSn	120				
121	GPIO35		GPIO	GPIO		GPIO36	122				
123	GPIO37		GPIO	GPIO		GPIO38	124				
125	GPIO60		GPIO	GPIO		GPIO61	126				
127	GPIO62		GPIO	GPIO		GPIO63	128				
129	GPIO64		GPIO	GPIO		GPIO65	130				
131	GPIO66		GPIO	GPIO		GPIO67	132				
133	GPIO68		GPIO	GPIO		GPIO69	134				
135			GND	Rsv			136				
137	GPIO70		GPIO	GPIO		GPIO71	138				
139	GPIO72#		GPIO	GPIO		GPIO73	140				
141	GPIO74		GPIO	GPIO		GPIO126	142				
143	GPIO76		GPIO	GPIO		GPIO77	144				
145	GPIO78		GPIO	GPIO		GPIO79	146				
147	GPIO80		GPIO	GPIO		GPIO81	148				
149	GPIO82		GPIO	GPIO		GPIO83	150				
151	GPIO84#		GPIO	GPIO		GPIO85	152				
153	GPIO86		GPIO	GPIO		GPIO87	154				
155	GPIO88		GPIO	GPIO		GPIO89	156				
157			GND	SVO			158				
159	GPIO90		GPIO	GPIO		GPIO91	160				
161	GPIO92		GPIO	GPIO		GPIO93	162				
163	GPIO94		GPIO	GPIO		GPIO133	164				
165	GPIO127		GPIO	GPIO		GPIO128	166				
167	GPIO147		GPIO	GPIO		GPIO95	168				
169	GPIO104		GPIO	GPIO		GPIO107	170				
171			Rsv	Rsv			172				
173			Rsv	Rsv			174				
175			Rsv	Rsv			176				
177			Rsv	ERRORSTS		ERRORSTS	178				
179			GND	SVO			180				

Analog

Analog

Digital

Digital

*Switches may be altered to connect this HSEC pin to the MCU's VREFHI inputs
 ** Connected to LED
 #Boot mode pin
 ## Connect through isolation to embedded debug probe