cCARD Pinout: F28388D

Date: 02May2019 — HSEC Pinout: 2.15

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			GND	JTAG-TDI			8
9	ADC-A0		ADC1 (and/or DACA)	GND			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			16
17	ADC-A3		ADC1	ADC2		ADC-B2	18
19			GND	ADC2		ADC-B3	20
21	ADC-A4		ADC1 (and/or CMPIN+)	GND			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			GND	ADC		ADC-D3	36
37	ADC-C4		ADC	GND			38
39	ADC-C5		ADC	ADC		ADC-D4	40
41			Rsv	ADC		ADC-D5	42
43			VREFLO	Rsv			44
45	All VREFHIs *		VREFHI	GND			46
47			GND	5V0			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	QEPS or McBSP-MCLKX		GPIO-22	72
73	GPIO-19		SPISTE	QEPI or McBSP-MFSX		GPIO-23	74
75	GPIO-24		eCAP or SPISIMO	SCIRX/UARTRX		GPIO-28##	76
77	GPIO-25		eCAP or SPISOMI	SCITX/UARTTX		GPIO-29##	78
79	GPIO-26		eCAP or SPICLK	CANRX		GPIO-30	80
81	GPIO-27		eCAP or SPISTE	CANTX		GPIO-31**	82
83			GND	5V0			84
85	GPIO-32		I2CSDA	GPIO		GPIO-34**	86
87	GPIO-33		I2CSCL	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			GND	5V0			98
99	GPIO-48		SD-D	QEPA		GPIO-54	100
101	GPIO-49		SD-C	QEPB		GPIO-55	102
103	GPIO-50		SD-D	QEPS		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			GND	5V0			112
113			Rsv	Rsv			114
115			Rsv	Rsv			116
117			Rsv	Rsv			118
119			Rsv	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	5V0			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	Rsv			178
179			GND	5V0			180

Analog / 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