

Date:		cCARD Pinout:		F28379D (180pin)		HSEC Pinout:	
09Jun2022						2.17	
HSEC pin	MCU pin	MCU Usage for Std	HSEC cCARD standard	HSEC cCARD standard	MCU Usage for Std	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		GND	JTAG-TDI		TDI	8
9	ADC-A0_DAC		ADC1 (and/or DACA)	GND		GND	10
11	ADC-A1_DAC		ADC1 (and/or DACA)	ADC2		ADC-B0	12
13	NC		GND	ADC2		ADC-B1	14
15	ADC-A2_COMP+		ADC1 (and/or CMPIN+)	GND		NC	16
17	ADC-A3		ADC1	ADC2		ADC-B2_COMP+	18
19	GND		GND	ADC2		ADC-B3	20
21	ADC-A4_COMP+		ADC1 (and/or CMPIN+)	GND		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-B0_COMP+	28
29	NC		GND	ADC		ADC-D1	30
31	ADC-C2_COMP+		ADC	Rsv		-	32
33	ADC-C3		ADC	ADC		ADC-D2_COMP+	34
35	GND		GND	ADC		ADC-D3	36
37	ADC-C4_COMP+		ADC	ADC		GND	38
39	ADC-C5		ADC	ADC		ADC-B4	40
41	-		Rsv	ADC		ADC-D5	42
43	NC		VREFLO	Rsv		-	44
45	All VREFHIs *		VREFHI	GND		GND	46
47	GND		GND	SVD		SVD	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 or FSIRX-D0		GPIO-12	58
59	GPIO-09		PWMB	PWMB or TZ2 or FSIRX-CLK		GPIO-13	60
61	GPIO-10		PWMA	PWMA or TZ3		GPIO-14	62
63	GPIO-11		PWMB or FSIRX-D1	PWMB or TZ4		GPIO-15	64
65	GND		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	SCIRX/UARTRX		GPIO-28	76
77	GPIO-25		eCAP or SPISOMI or FSITX-D1	SCITX/UARTTX or ERRORSTS		GPIO-29	78
79	GPIO-26		eCAP or SPICLK or FSITX-D0	CANRX		GPIO-30	80
81	GPIO-27		eCAP or SPISTE or FSITX-CLK	CANTX		GPIO-31	82
83	GND		GND	SVD		SVD	84
85	GPIO-32		I2CSDA	GPIO		GPIO-34	86
87	GPIO-33		I2CSCL	GPIO		GPIO-39	88
89	GPIO-40		GPIO	GPIO		GPIO	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		GND	SVD		SVD	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	QEPB		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		GND	SVD		SVD	112
113	-		Rsv	Rsv		-	114
115	-		Rsv	Rsv		-	116
117	-		Rsv	VDD		NC	118
119	NC		VDDIO	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		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		GND	SVD		SVD	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	ERRORSTS		NC	178
179	GND		GND	SVD		SVD	180

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