6. I/O Multiplexing and Considerations

6.1 Multiplexed Signals

By default each pin is controlled by the PORT as a general purpose I/O, and alternatively it can be assigned a different peripheral functions. To enable a peripheral function on a pin, the Peripheral Multiplexer Enable bit in the Pin Configuration register corresponding to that pin (PINCFGn.PMUXEN, n = 0-31) in the PORT must be written to '1'. The selection of peripheral functions, A to N, is done by writing to the Peripheral Multiplexing Odd and Even bits in the Peripheral Multiplexing register (PMUXn.PMUXE/O) of the PORT. The table below describes the peripheral signals multiplexed to the PORT I/O pins.

Important: Not all signals are available on all devices. Refer to the Configuration Summary for available peripherals.

Table 6-1. Multiplexed Peripheral Signals

VQFN 48	TQFP/VQFN/WLCSP 64	TQFP 100	TFBGA 120	TQFP 128	Pad Name	A	B						C	D	E	F	G	H	I	J	K	L	M	N
						EIC	ANAREF	ADC0	ADC1	AC	DAC	PTC	SERCOM	SERCOM	TC	TCC	TCC, PDEC	QSPI, CAN1, USB, CORTEX_CM4	SDHC, CAN0	I^2S	PCC	GMAC	GCLK, AC	CCL
48	64/C6	100	B2	128	PB03	EIC/EXTINT[3]	-	ADC0/AIN[15]	-	-	-	X21/Y21	-	SERCOM5/PAD[1]	TC6/WO[1]	-	-	-	-	-	-	-	-	-
1	01/B8	1	A1	1	PA00	EIC/EXTINT[0]	-	-	-	-	-		-	SERCOM1/PAD[0]	TC2/WO[0]	-	-	-	-	-	-	-	-	-
2	02/C8	2	B1	2	PA01	EIC/EXTINT[1]	-	-	-	-	-		-	SERCOM1/PAD[1]	TC2/WO[1]	-	-	-	-	-	-	-	-	-
		3	C1	3	PC00	EIC/EXTINT[0]	-	-	ADC1/AIN[10]	-	-		-	-	-	-	-	-	-	-	-	-	-	-
		4	C2	4	PC01	EIC/EXTINT[1]	-	-	ADC1/AIN[11]	-	-		-	-	-	-	-	-	-	-	-	-	-	-
		5	D1	7	PC02	EIC/EXTINT[2]	-	-	ADC1/AIN[4]	-	-		-	-	-	-	-	-	-	-	-	-	-	-
		6	E2	8	PC03	EIC/EXTINT[3]	-	-	ADC1/AIN[5]	-	-		-	-	-	-	-	-	-	-	-	-	-	-
3	03/C7	7	E1	9	PA02	EIC/EXTINT[2]	-	ADC0/AIN[0]	-	-	DAC/VOUT[0]		-	-	-	-	-	-	-	-	-	-	-	-
4	04/D6	8	F2	10	PA03	EIC/EXTINT[3]	ANAREF/VREFA	ADC0/AIN[1]	-	-	-	X0/Y0	-	-	-	-	-	-	-	-	-	-	-	-
	05/D7	9	F1	11	PB04	EIC/EXTINT[4]	-	-	ADC1/AIN[6]	-	-	X22/Y22	-	-	-	-	-	-	-	-	-	-	-	-
	06/D8	10	G1	12	PB05	EIC/EXTINT[5]	-	-	ADC1/AIN[7]	-	-	X23/Y23	-	-	-	-	-	-	-	-	-	-	-	-
		-	G2	13	PD00	EIC/EXTINT[0]	-	-	ADC1/AIN[14]	-	-		-	-	-	-	-	-	-	-	-	-	-	-
		-	H1	16	PD01	EIC/EXTINT[1]	-	-	ADC1/AIN[15]	-	-		-	-	-	-	-	-	-	-	-	-	-	-
	09/E7	13	H2	17	PB06	EIC/EXTINT[6]	-	-	ADC1/AIN[8]	-	-	X24/Y24	-	-	-	-	-	-	-	-	-	-	-	CCL/IN[6]
	10/E6	14	J1	18	PB07	EIC/EXTINT[7]	-	-	ADC1/AIN[9]	-	-	X25/Y25	-	-	-	-	-	-	-	-	-	-	-	CCL/IN[7]

.....continued

VQFN 48	TQFP/VQFN/WLCSP 64	TQFP 100	TFBGA 120	TQFP 128	Pad Name	A	B						C	D	E	F	G	H	I	J	K	L	M	N
						EIC	ANAREF	ADC0	ADC1	AC	DAC	PTC	SERCOM	SERCOM	TC	TCC	TCC, PDEC	QSPI, CAN1, USB, CORTEX_CM4	SDHC, CAN0	I2S	PCC	GMAC	GCLK, AC	CCL
7	11/F5	15	J2	19	PB08	EIC/EXTINT[8]	-	ADC0/AIN[2]	ADC1/AIN[0]	-	-	X1/Y1	-	SERCOM4/PAD[0]	TC4/WO[0]	-	-	-	-	-	-	-	-	CCL/IN[8]
8	12/F8	16	K1	20	PB09	EIC/EXTINT[9]	-	ADC0/AIN[3]	ADC1/AIN[1]	-	-	X2/Y2	-	SERCOM4/PAD[1]	TC4/WO[1]	-	-	-	-	-	-	-	-	CCL/OUT[2]
9	13/F7	17	K2	21	PA04	EIC/EXTINT[4]	ANAREF/VREFB	ADC0/AIN[4]	-	AC/AIN[0]	-	X3/Y3	-	SERCOM0/PAD[0]	TC0/WO[0]	-	-	-	-	-	-	-	-	CCL/IN[0]
10	14/F6	18	L1	22	PA05	EIC/EXTINT[5]	-	ADC0/AIN[5]	-	AC/AIN[1]	DAC/VOUT[1]		-	SERCOM0/PAD[1]	TC0/WO[1]	-	-	-	-	-	-	-	-	CCL/IN[1]
11	15/G7	19	L2	23	PA06	EIC/EXTINT[6]	ANAREF/VREFC	ADC0/AIN[6]	-	AC/AIN[2]	-	X4/Y4	-	SERCOM0/PAD[2]	TC1/WO[0]	-	-	-	SDHC0/SDCD	-	-	-	-	CCL/IN[2]
12	16/G8	20	M1	24	PA07	EIC/EXTINT[7]	-	ADC0/AIN[7]	-	AC/AIN[3]	-	X5/Y5	-	SERCOM0/PAD[3]	TC1/WO[1]	-	-	-	SDHC0/SDWP	-	-	-	-	CCL/OUT[0]
		-	N1	27	PC04	EIC/EXTINT[4]	-	-	-	-	-		SERCOM6/PAD[0]	-	-	TCC0/WO[0]	-	-	-	-	-	-	-	-
		21	N2	28	PC05	EIC/EXTINT[5]	-	-	-	-	-		SERCOM6/PAD[1]	-	-	-	-	-	-	-	-	-	-	-
		22	P1	29	PC06	EIC/EXTINT[6]	-	-	-	-	-		SERCOM6/PAD[2]	-	-	-	-	-	SDHC0/SDCD	-	-	-	-	-
		23	P2	30	PC07	EIC/EXTINT[9]	-	-	-	-	-		SERCOM6/PAD[3]	-	-	-	-	-	SDHC0/SDWP	-	-	-	-	-
13	17/H8	26	R1	33	PA08	EIC/NMI	-	ADC0/AIN[8]	ADC1/AIN[2]	-	-	X6/Y6	SERCOM0/PAD[0]	SERCOM2/PAD[1]	TC0/WO[0]	TCC0/WO[0]	TCC1/WO[4]	QSPI/DATA[0]	SDHC0/SDCMD	I2S/MCK[0]	-	-	-	CCL/IN[3]
14	18/G6	27	P3	34	PA09	EIC/EXTINT[9]	-	ADC0/AIN[9]	ADC1/AIN[3]	-	-	X7/Y7	SERCOM0/PAD[1]	SERCOM2/PAD[0]	TC0/WO[1]	TCC0/WO[1]	TCC1/WO[5]	QSPI/DATA[1]	SDHC0/SDDAT[0]	I2S/FS[0]	-	-	-	CCL/IN[4]
15	19/H7	28	R2	35	PA10	EIC/EXTINT[10]	-	ADC0/AIN[10]	-	-	-	X8/Y8	SERCOM0/PAD[2]	SERCOM2/PAD[2]	TC1/WO[0]	TCC0/WO[2]	TCC1/WO[6]	QSPI/DATA[2]	SDHC0/SDDAT[1]	I2S/SCK[0]	-	-	GCLK/IO[4]	CCL/IN[5]
16	20/G5	29	P4	36	PA11	EIC/EXTINT[11]	-	ADC0/AIN[11]	-	-	-	X9/Y9	SERCOM0/PAD[3]	SERCOM2/PAD[3]	TC1/WO[1]	TCC0/WO[3]	TCC1/WO[7]	QSPI/DATA[3]	SDHC0/SDDAT[2]	I2S/SDO	-	-	GCLK/IO[5]	CCL/OUT[1]
19	23/H6	32	R3	39	PB10	EIC/EXTINT[10]	-	-	-	-	-		-	SERCOM4/PAD[2]	TC5/WO[0]	TCC0/WO[4]	TCC1/WO[0]	QSPI/SCK	SDHC0/SDDAT[3]	I2S/SDI	-	-	GCLK/IO[4]	CCL/IN[11]
20	24/G4	33	P5	40	PB11	EIC/EXTINT[11]	-	-	-	-	-		-	SERCOM4/PAD[3]	TC5/WO[1]	TCC0/WO[5]	TCC1/WO[1]	QSPI/CS	SDHC0/SDCK	I2S/FS[1]	-	-	GCLK/IO[5]	CCL/OUT[1]
	25/H5	34	R4	41	PB12	EIC/EXTINT[12]	-	-	-	-	-	X26/Y26	SERCOM4/PAD[0]	-	TC4/WO[0]	TCC3/WO[0]	TCC0/WO[0]	CAN1/TX	SDHC0/SDCD	I2S/SCK[1]	-	-	GCLK/IO[6]	-
	26/H4	35	P6	42	PB13	EIC/EXTINT[13]	-	-	-	-	-	X27/Y27	SERCOM4/PAD[1]	-	TC4/WO[1]	TCC3/WO[1]	TCC0/WO[1]	CAN1/RX	SDHC0/SDWP	I2S/MCK[1]	-	-	GCLK/IO[7]	-
	27/G3	36	R5	43	PB14	EIC/EXTINT[14]	-	-	-	-	-	X28/Y28	SERCOM4/PAD[2]	-	TC5/WO[0]	TCC4/WO[0]	TCC0/WO[2]	CAN1/TX	-	-	PCC/DATA[8]	GMAC/GMDC	GCLK/IO[0]	CCL/IN[9]
	28/H3	37	P7	44	PB15	EIC/EXTINT[15]	-	-	-	-	-	X29/Y29	SERCOM4/PAD[3]	-	TC5/WO[1]	TCC4/WO[1]	TCC0/WO[3]	CAN1/RX	-	-	PCC/DATA[9]	GMAC/GMDIO	GCLK/IO[1]	CCL/IN[10]
		-	R6	47	PD08	EIC/EXTINT[3]	-	-	-	-	-		SERCOM7/PAD[0]	SERCOM6/PAD[1]	-	TCC0/WO[1]	-	-	-	-	-	-	-	-
		-	P8	48	PD09	EIC/EXTINT[4]	-	-	-	-	-		SERCOM7/PAD[1]	SERCOM6/PAD[0]	-	TCC0/WO[2]	-	-	-	-	-	-	-	-
		-	R7	49	PD10	EIC/EXTINT[5]	-	-	-	-	-		SERCOM7/PAD[2]	SERCOM6/PAD[2]	-	TCC0/WO[3]	-	-	-	-	-	-	-	-
		-	P9	50	PD11	EIC/EXTINT[6]	-	-	-	-	-		SERCOM7/PAD[3]	SERCOM6/PAD[3]	-	TCC0/WO[4]	-	-	-	-	-	-	-	-
		-	R8	51	PD12	EIC/EXTINT[7]	-	-	-	-	-		-	-	-	TCC0/WO[5]	-	-	-	-	-	-	-	-
		40	P10	52	PC10	EIC/EXTINT[10]	-	-	-	-	-		SERCOM6/PAD[2]	SERCOM7/PAD[2]	-	TCC0/WO[0]	TCC1/WO[4]	-	-	-	-	-	-	-

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VQFN 48	TQFP/VQFN/WLCSP 64	TQFP 100	TFBGA 120	TQFP 128	Pad Name	A	B						C	D	E	F	G	H	I	J	K	L	M	N
						EIC	ANAREF	ADC0	ADC1	AC	DAC	PTC	SERCOM	SERCOM	TC	TCC	TCC, PDEC	QSPI, CAN1, USB, CORTEX_CM4	SDHC, CAN0	I^2S	PCC	GMAC	GCLK, AC	CCL
		41	R9	55	PC11	EIC/ EXTINT[11]	-	-	-	-	-		SERCOM6/ PAD[3]	SERCOM7/ PAD[3]	-	TCC0/ WO[1]	TCC1/ WO[5]	-	-	-	-	GMAC/ GMDC	-	-
		42	R10	56	PC12	EIC/ EXTINT[12]	-	-	-	-	-		SERCOM7/ PAD[0]	SERCOM6/ PAD[1]	-	TCC0/ WO[2]	TCC1/ WO[6]	-	-	-	PCC/ DATA[10]	GMAC/ GMDIO	-	-
		43	P11	57	PC13	EIC/ EXTINT[13]	-	-	-	-	-		SERCOM7/ PAD[1]	SERCOM6/ PAD[0]	-	TCC0/ WO[3]	TCC1/ WO[7]	-	-	-	PCC/ DATA[11]	-	-	-
		44	R11	58	PC14	EIC/ EXTINT[14]	-	-	-	-	-		SERCOM7/ PAD[2]	SERCOM6/ PAD[2]	-	TCC0/ WO[4]	TCC1/ WO[0]	-	-	-	PCC/ DATA[12]	GMAC/ GRX[3]	-	-
		45	P12	59	PC15	EIC/ EXTINT[15]	-	-	-	-	-		SERCOM7/ PAD[3]	SERCOM6/ PAD[3]	-	TCC0/ WO[5]	TCC1/ WO[1]	-	-	-	PCC/ DATA[13]	GMAC/ GRX[2]	-	-
21	29/F2	46	R12	60	PA12	EIC/ EXTINT[12]	-	-	-	-	-		SERCOM2/ PAD[0]	SERCOM4/ PAD[1]	TC2/ WO[0]	TCC0/ WO[6]	TCC1/ WO[2]	-	SDHC0/ SDCD	-	PCC/ DEN1	GMAC/ GRX[1]	AC/ CMP[0]	-
22	30/G2	47	P13	61	PA13	EIC/ EXTINT[13]	-	-	-	-	-		SERCOM2/ PAD[1]	SERCOM4/ PAD[0]	TC2/ WO[1]	TCC0/ WO[7]	TCC1/ WO[3]	-	SDHC0/ SDWP	-	PCC/ DEN2	GMAC/ GRX[0]	AC/ CMP[1]	-
23	31/H1	48	R13	62	PA14	EIC/ EXTINT[14]	-	-	-	-	-		SERCOM2/ PAD[2]	SERCOM4/ PAD[2]	TC3/ WO[0]	TCC2/ WO[0]	TCC1/ WO[2]	-	-	-	PCC/CLK	GMAC/ GTXCK	GCLK/ IO[0]	-
24	32/H2	49	R14	63	PA15	EIC/ EXTINT[15]	-	-	-	-	-		SERCOM2/ PAD[3]	SERCOM4/ PAD[3]	TC3/ WO[1]	TCC2/ WO[1]	TCC1/ WO[3]	-	-	-	-	GMAC/ GRXER	GCLK/ IO[1]	-
25	35/G1	52	R15	66	PA16	EIC/ EXTINT[0]	-	-	-	-	-	X10/Y10	SERCOM1/ PAD[0]	SERCOM3/ PAD[1]	TC2/ WO[0]	TCC1/ WO[0]	TCC0/ WO[4]	-	-	-	PCC/ DATA[0]	GMAC/ GCRS/ GRXDV (6)	GCLK/ IO[2]	CCL/ IN[0]
26	36/F1	53	P14	67	PA17	EIC/ EXTINT[1]	-	-	-	-	-	X11/Y11	SERCOM1/ PAD[1]	SERCOM3/ PAD[0]	TC2/ WO[1]	TCC1/ WO[1]	TCC0/ WO[5]	-	-	-	PCC/ DATA[1]	GMAC/ GTXEN	GCLK/ IO[3]	CCL/ IN[1]
27	37/E1	54	P15	68	PA18	EIC/ EXTINT[2]	-	-	-	-	-	X12/Y12	SERCOM1/ PAD[2]	SERCOM3/ PAD[2]	TC3/ WO[0]	TCC1/ WO[2]	TCC0/ WO[6]	-	-	-	PCC/ DATA[2]	GMAC/ GTX[0]	AC/ CMP[0]	CCL/ IN[2]
28	38/E2	55	N14	69	PA19	EIC/ EXTINT[3]	-	-	-	-	-	X13/Y13	SERCOM1/ PAD[3]	SERCOM3/ PAD[3]	TC3/ WO[1]	TCC1/ WO[3]	TCC0/ WO[7]	-	-	-	PCC/ DATA[3]	GMAC/ GTX[1]	AC/ CMP[1]	CCL/ OUT[0]
		56	N15	70	PC16	EIC/ EXTINT[0]	-	-	-	-	-		SERCOM6/ PAD[0]	SERCOM0/ PAD[1]	-	TCC0/ WO[0]	PDEC/ QDI[0]	-	-	-	-	GMAC/ GTX[2]	-	-
		57	M14	71	PC17	EIC/ EXTINT[1]	-	-	-	-	-		SERCOM6/ PAD[1]	SERCOM0/ PAD[0]	-	TCC0/ WO[1]	PDEC/ QDI[1]	-	-	-	-	GMAC/ GTX[3]	-	-
		58	M15	72	PC18	EIC/ EXTINT[2]	-	-	-	-	-		SERCOM6/ PAD[2]	SERCOM0/ PAD[2]	-	TCC0/ WO[2]	PDEC/ QDI[2]	-	-	-	-	GMAC/ GRXCK	-	-
		59	L14	73	PC19	EIC/ EXTINT[3]	-	-	-	-	-		SERCOM6/ PAD[3]	SERCOM0/ PAD[3]	-	TCC0/ WO[3]	-	-	-	-	-	GMAC/ GTXER	-	-
		60	L15	74	PC20	EIC/ EXTINT[4]	-	-	-	-	-		-	-	-	TCC0/ WO[4]	-	-	SDHC1/ SDCD	-	-	GMAC/ GRXDV	-	CCL/ IN[9]
		61	K14	75	PC21	EIC/ EXTINT[5]	-	-	-	-	-		-	-	-	TCC0/ WO[5]	-	-	SDHC1/ SDWP	-	-	GMAC/ GCOL	-	CCL/ IN[10]
		-	K15	76	PC22	EIC/ EXTINT[6]	-	-	-	-	-		SERCOM1/ PAD[0]	SERCOM3/ PAD[1]	-	TCC0/ WO[6]	-	-	-	-	-	GMAC/ GMDC	-	-
		-	J14	77	PC23	EIC/ EXTINT[7]	-	-	-	-	-		SERCOM1/ PAD[1]	SERCOM3/ PAD[0]	-	TCC0/ WO[7]	-	-	-	-	-	GMAC/ GMDIO	-	-
		-	J15	80	PD20	EIC/ EXTINT[10]	-	-	-	-	-		SERCOM1/ PAD[2]	SERCOM3/ PAD[2]	-	TCC1/ WO[0]	-	-	SDHC1/ SDCD	-	-	-	-	-
		-	H14	81	PD21	EIC/ EXTINT[11]	-	-	-	-	-		SERCOM1/ PAD[3]	SERCOM3/ PAD[3]	-	TCC1/ WO[1]	-	-	SDHC1/ SDWP	-	-	-	-	-
	39/D4	64	H15	82	PB16	EIC/ EXTINT[0]	-	-	-	-	-		SERCOM5/ PAD[0]	-	TC6/ WO[0]	TCC3/ WO[0]	TCC0/ WO[4]	-	SDHC1/ SDCD	I^2S/ SCK[0]	-	-	GCLK/ IO[2]	CCL/ IN[11]
	40/D1	65	G15	83	PB17	EIC/ EXTINT[1]	-	-	-	-	-		SERCOM5/ PAD[1]	-	TC6/ WO[1]	TCC3/ WO[1]	TCC0/ WO[5]	-	SDHC1/ SDWP	I^2S/ MCK[0]	-	-	GCLK/ IO[3]	CCL/ OUT[3]
		66	G14	84	PB18	EIC/ EXTINT[2]	-	-	-	-	-		SERCOM5/ PAD[2]	SERCOM7/ PAD[2]	-	TCC1/ WO[0]	PDEC/ QDI[0]	-	SDHC1/ SDDAT[0]	-	-	-	GCLK/ IO[4]	-

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VQFN 48	TQFP/VQFN/WLCSP 64	TQFP 100	TFBGA 120	TQFP 128	Pad Name	A	B						C	D	E	F	G	H	I	J	K	L	M	N
						EIC	ANAREF	ADC0	ADC1	AC	DAC	PTC	SERCOM	SERCOM	TC	TCC	TCC, PDEC	QSPI, CAN1, USB, CORTEX_CM4	SDHC, CAN0	I^2S	PCC	GMAC	GCLK, AC	CCL
		67	F15	85	PB19	EIC/EXTINT[3]	-	-	-	-	-		SERCOM5/PAD[3]	SERCOM7/PAD[3]	-	TCC1/WO[1]	PDEC/QDI[1]	-	SDHC1/SDDAT[1]	-	-	-	GCLK/IO[5]	-
		68	F14	86	PB20	EIC/EXTINT[4]	-	-	-	-	-		SERCOM3/PAD[0]	SERCOM7/PAD[1]	-	TCC1/WO[2]	PDEC/QDI[2]	-	SDHC1/SDDAT[2]	-	-	-	GCLK/IO[6]	-
		69	E15	87	PB21	EIC/EXTINT[5]	-	-	-	-	-		SERCOM3/PAD[1]	SERCOM7/PAD[0]	-	TCC1/WO[3]	-	-	SDHC1/SDDAT[3]	-	-	-	GCLK/IO[7]	-
29	41/D2	70	E14	88	PA20	EIC/EXTINT[4]	-	-	-	-	-	X14/Y14	SERCOM5/PAD[2]	SERCOM3/PAD[2]	TC7/WO[0]	TCC1/WO[4]	TCC0/WO[0]	-	SDHC1/SDCMD	I^2S/FS[0]	PCC/DATA[4]	GMAC/GMDC	-	-
30	42/D3	71	D15	89	PA21	EIC/EXTINT[5]	-	-	-	-	-	X15/Y15	SERCOM5/PAD[3]	SERCOM3/PAD[3]	TC7/WO[1]	TCC1/WO[5]	TCC0/WO[1]	-	SDHC1/SDCK	I^2S/SDO	PCC/DATA[5]	GMAC/GMDIO	-	-
31	43/C1	72	D14	92	PA22	EIC/EXTINT[6]	-	-	-	-	-	X16/Y16	SERCOM3/PAD[0]	SERCOM5/PAD[1]	TC4/WO[0]	TCC1/WO[6]	TCC0/WO[2]	-	CAN0/TX	I^2S/SDI	PCC/DATA[6]	-	-	CCL/IN[6]
32	44/C2	73	C14	93	PA23	EIC/EXTINT[7]	-	-	-	-	-	X17/Y17	SERCOM3/PAD[1]	SERCOM5/PAD[0]	TC4/WO[1]	TCC1/WO[7]	TCC0/WO[3]	USB/SOF_1KHZ	CAN0/RX	I^2S/FS[1]	PCC/DATA[7]	-	-	CCL/IN[7]
33	45/B1	74	C15	94	PA24	EIC/EXTINT[8]	-	-	-	-	-		SERCOM3/PAD[2]	SERCOM5/PAD[2]	TC5/WO[0]	TCC2/WO[2]	PDEC/QDI[0]	USB/DM	CAN0/TX	-	-	-	-	CCL/IN[8]
34	46/A1	75	B15	95	PA25	EIC/EXTINT[9]	-	-	-	-	-		SERCOM3/PAD[3]	SERCOM5/PAD[3]	TC5/WO[1]	-	PDEC/QDI[1]	USB/DP	CAN0/RX	-	-	-	-	CCL/OUT[2]
37	49/A2	78	A15	98	PB22	EIC/EXTINT[6]	-	-	-	-	-		SERCOM1/PAD[2]	SERCOM5/PAD[2]	TC7/WO[0]	-	PDEC/QDI[2]	USB/SOF_1KHZ	-	-	-	-	GCLK/IO[0]	CCL/IN[0]
38	50/A3	79	A14	99	PB23	EIC/EXTINT[7]	-	-	-	-	-		SERCOM1/PAD[3]	SERCOM5/PAD[3]	TC7/WO[1]	-	PDEC/QDI[0]	-	-	-	-	-	GCLK/IO[1]	CCL/OUT[0]
		80	B14	100	PB24	EIC/EXTINT[8]	-	-	-	-	-		SERCOM0/PAD[0]	SERCOM2/PAD[1]	-	-	PDEC/QDI[1]	-	-	-	-	-	AC/CMP[0]	-
		81	B13	101	PB25	EIC/EXTINT[9]	-	-	-	-	-		SERCOM0/PAD[1]	SERCOM2/PAD[0]	-	-	PDEC/QDI[2]	-	-	-	-	-	AC/CMP[1]	-
		-	A13	102	PB26	EIC/EXTINT[12]	-	-	-	-	-		SERCOM2/PAD[0]	SERCOM4/PAD[1]	-	TCC1/WO[2]	-	-	-	-	-	-	-	-
		-	B12	103	PB27	EIC/EXTINT[13]	-	-	-	-	-		SERCOM2/PAD[1]	SERCOM4/PAD[0]	-	TCC1/WO[3]	-	-	-	-	-	-	-	-
		-	A12	104	PB28	EIC/EXTINT[14]	-	-	-	-	-		SERCOM2/PAD[2]	SERCOM4/PAD[2]	-	TCC1/WO[4]	-	-	-	I^2S/SCK[1]	-	-	-	-
		-	B11	105	PB29	EIC/EXTINT[15]	-	-	-	-	-		SERCOM2/PAD[3]	SERCOM4/PAD[3]	-	TCC1/WO[5]	-	-	-	I^2S/MCK[1]	-	-	-	-
		82	A11	108	PC24	EIC/EXTINT[8]	-	-	-	-	-		SERCOM0/PAD[2]	SERCOM2/PAD[2]	-	-	-	CORTEX_CM4/TRACEDATA[3]	-	-	-	-	-	-
		83	B10	109	PC25	EIC/EXTINT[9]	-	-	-	-	-		SERCOM0/PAD[3]	SERCOM2/PAD[3]	-	-	-	CORTEX_CM4/TRACEDATA[2]	-	-	-	-	-	-
		84	A10	110	PC26	EIC/EXTINT[10]	-	-	-	-	-		-	-	-	-	-	CORTEX_CM4/TRACEDATA[1]	-	-	-	-	-	-
		85	A9	111	PC27	EIC/EXTINT[11]	-	-	-	-	-		SERCOM1/PAD[0]	-	-	-	-	CORTEX_CM4/TRACECLK	-	-	-	-	CORTEX_M4/SWO	CCL/IN[4]
		86	B9	112	PC28	EIC/EXTINT[12]	-	-	-	-	-		SERCOM1/PAD[1]	-	-	-	-	CORTEX_CM4/TRACEDATA[0]	-	-	-	-	-	CCL/IN[5]
39	51/B3	87	B8	113	PA27	EIC/EXTINT[11]	-	-	-	-	-	X18/Y18	-	-	-	-	-		-	-	-	-	GCLK/IO[1]	-
40	52/B4	88	A8	114	RESET_N	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
45	57/C5	93	B7	119	PA30	EIC/EXTINT[14]	-	-	-	-	-	X19/Y19	-	SERCOM1/PAD[2]	TC6/WO[0]	TCC2/WO[0]	-	CORTEX_CM4/SWCLK	-	-	-	-	GCLK/IO[0]	CCL/IN[3]

.....continued

VQFN 48	TQFP/VQFN/WLCSP 64	TQFP 100	TFBGA 120	TQFP 128	Pad Name	A	B						C	D	E	F	G	H	I	J	K	L	M	N
						EIC	ANAREF	ADC0	ADC1	AC	DAC	PTC	SERCOM	SERCOM	TC	TCC	TCC, PDEC	QSPI, CAN1, USB, CORTEX_CM4	SDHC, CAN0	I2S	PCC	GMAC	GCLK, AC	CCL
46	58/D5	94	B6	120	PA31	EIC/EXTINT[15]	-	-	-	-	-		-	SERCOM1/PAD[3]	TC6/WO[1]	TCC2/WO[1]	-	CORTEX_CM4/SWDIO-	-	-	-	-	-	CCL/OUT[1]
	59/A6	95	A5	121	PB30	EIC/EXTINT[14]	-	-	-	-	-		-	SERCOM5/PAD[1]	TC0/WO[0]	TCC4/WO[0]	TCC0/WO[6]	CORTEX_CM4/SWO	-	-	-	-	-	-
	60/B6	96	B5	122	PB31	EIC/EXTINT[15]	-	-	-	-	-		-	SERCOM5/PAD[0]	TC0/WO[1]	TCC4/WO[1]	TCC0/WO[7]		-	-	-	-	-	-
		-	A4	123	PC30	EIC/EXTINT[14]	-	-	ADC1/AIN[12]	-	-		-	-	-	-	-	-	-	-	-	-	-	-
		-	B4	124	PC31	EIC/EXTINT[15]	-	-	ADC1/AIN[13]	-	-		-	-	-	-	-	-	-	-	-	-	-	-
	61/A7	97	A3	125	PB00	EIC/EXTINT[0]	-	ADC0/AIN[12]	-	-	-	X30/Y30	-	SERCOM5/PAD[2]	TC7/WO[0]	-	-	-	-	-	-	-	-	CCL/IN[1]
	62/B7	98	B3	126	PB01	EIC/EXTINT[1]	-	ADC0/AIN[13]	-	-	-	X31/Y31	-	SERCOM5/PAD[3]	TC7/WO[1]	-	-	-	-	-	-	-	-	CCL/IN[2]
47	63/A8	99	A2	127	PB02	EIC/EXTINT[2]	-	ADC0/AIN[14]	-	-	-	X20/Y20	-	SERCOM5/PAD[0]	TC6/WO[0]	TCC2/WO[2]	-	-	-	-	-	-	-	CCL/OUT[0]

Note:

1. All analog pin functions are on the peripheral function B. The peripheral function B must be selected to disable the digital control of the pin. The AC has analog signals on the peripheral function B and digital signals on the peripheral function M.
2. The pins used by the SERCOM in I^2C mode are listed in section SERCOM I^2C Configurations.
3. The following High Sink pins have different properties than the regular pins:
   PA08, PA09, PA12, PA13, PA16, PA17, PA22, PA23, PD08, PD09.
4. Clusters of multiple GPIO pins are sharing the same supply pin.
5. When TRACE is used in single-wire debug mode, PC27 assumes the role of SWO. In other debug modes, PB30 assumes the SWO functionality.
6. GRXDV is available on PA16 for the 64-pin package only.

Important: Not all signals are available on all devices. Refer to the Configuration Summary for available peripherals.

Related Links

6.2.6 SERCOM I2C Configurations

6.2.9 GPIO Clusters

6.2 Other Functions

6.2.1 Oscillator Pinout

The oscillators are not mapped to the normal PORT functions and their multiplexing is controlled by registers in the Oscillators Controller (OSCCTRL) and in the 32K Oscillators Controller (OSC32KCTRL).