To find a package drawing, go to http://www.freescale.com and perform a keyword search for the drawing's document number:

If you want the drawing for this package	Then use this document number
100-pin LQFP	98ASS23308W

8 Pinout

8.1 K60 Signal Multiplexing and Pin Assignments

The following table shows the signals available on each pin and the locations of these pins on the devices supported by this document. The Port Control Module is responsible for selecting which ALT functionality is available on each pin.

100 LQFP	Pin Name	Default	ALT0	ALT1	ALT2	ALT3	ALT4	ALT5	ALT6	ALT7	EzPort
1	PTE0	ADC1_SE4a	ADC1_SE4a	PTE0	SPI1_PCS1	UART1_TX	SDHC0_D1		I2C1_SDA		
2	PTE1	ADC1_SE5a	ADC1_SE5a	PTE1	SPI1_SOUT	UART1_RX	SDHC0_D0		I2C1_SCL		
3	PTE2	ADC1_SE6a	ADC1_SE6a	PTE2	SPI1_SCK	UART1_CTS_b	SDHC0_DCLK				
4	PTE3	ADC1_SE7a	ADC1_SE7a	PTE3	SPI1_SIN	UART1_RTS_b	SDHC0_CMD				
5	PTE4	DISABLED		PTE4	SPI1_PCS0	UART3_TX	SDHC0_D3				
6	PTE5	DISABLED		PTE5	SPI1_PCS2	UART3_RX	SDHC0_D2				
7	PTE6	DISABLED		PTE6	SPI1_PCS3	UART3_CTS_b	I2S0_MCLK		I2S0_CLKIN		
8	VDD	VDD	VDD								
9	VSS	VSS	VSS								
10	USB0_DP	USB0_DP	USB0_DP								
11	USB0_DM	USB0_DM	USB0_DM								
12	VOUT33	VOUT33	VOUT33								
13	VREGIN	VREGIN	VREGIN								
14	ADC0_DP1	ADC0_DP1	ADC0_DP1								
15	ADC0_DM1	ADC0_DM1	ADC0_DM1								
16	ADC1_DP1	ADC1_DP1	ADC1_DP1								
17	ADC1_DM1	ADC1_DM1	ADC1_DM1								
18	PGA0_DP/ ADC0_DP0/ ADC1_DP3	PGA0_DP/ ADC0_DP0/ ADC1_DP3	PGA0_DP/ ADC0_DP0/ ADC1_DP3								
19	PGA0_DM/ ADC0_DM0/ ADC1_DM3	PGA0_DM/ ADC0_DM0/ ADC1_DM3	PGA0_DM/ ADC0_DM0/ ADC1_DM3								

100 LQFP	Pin Name	Default	ALT0	ALT1	ALT2	ALT3	ALT4	ALT5	ALT6	ALT7	EzPort
20	PGA1_DP/ ADC1_DP0/ ADC0_DP3	PGA1_DP/ ADC1_DP0/ ADC0_DP3	PGA1_DP/ ADC1_DP0/ ADC0_DP3								
21	PGA1_DM/ ADC1_DM0/ ADC0_DM3	PGA1_DM/ ADC1_DM0/ ADC0_DM3	PGA1_DM/ ADC1_DM0/ ADC0_DM3								
22	VDDA	VDDA	VDDA								
23	VREFH	VREFH	VREFH								
24	VREFL	VREFL	VREFL								
25	VSSA	VSSA	VSSA								
26	VREF_OUT/ CMP1_IN5/ CMP0_IN5/ ADC1_SE18	VREF_OUT/ CMP1_IN5/ CMP0_IN5/ ADC1_SE18	VREF_OUT/ CMP1_IN5/ CMP0_IN5/ ADC1_SE18								
27	DAC0_OUT/ CMP1_IN3/ ADC0_SE23	DAC0_OUT/ CMP1_IN3/ ADC0_SE23	DAC0_OUT/ CMP1_IN3/ ADC0_SE23								
28	XTAL32	XTAL32	XTAL32								
29	EXTAL32	EXTAL32	EXTAL32								
30	VBAT	VBAT	VBAT								
31	PTE24	ADC0_SE17	ADC0_SE17	PTE24	CAN1_TX	UART4_TX			EWM_OUT_b		
32	PTE25	ADC0_SE18	ADC0_SE18	PTE25	CAN1_RX	UART4_RX			EWM_IN		
33	PTE26	DISABLED		PTE26		UART4_CTS_b	ENET_1588_CLKIN		RTC_CLKOUT	USB_CLKIN	
34	PTA0	JTAG_TCLK/ SWD_CLK/ EZP_CLK	TSI0_CH1	PTA0	UART0_CTS_b	FTM0_CH5				JTAG_TCLK/ SWD_CLK	EZP_CLK
35	PTA1	JTAG_TDI/ EZP_DI	TSI0_CH2	PTA1	UART0_RX	FTM0_CH6				JTAG_TDI	EZP_DI
36	PTA2	JTAG_TDO/ TRACE_SWO/EZP_DO	TSI0_CH3	PTA2	UART0_TX	FTM0_CH7				JTAG_TDO/ TRACE_SWO	EZP_DO
37	PTA3	JTAG_TMS/ SWD_DIO	TSI0_CH4	PTA3	UART0_RTS_b	FTM0_CH0				JTAG_TMS/ SWD_DIO	
38	PTA4	NMI_b/ EZP_CS_b	TSI0_CH5	PTA4		FTM0_CH1				NMI_b	EZP_CS_b
39	PTA5	DISABLED		PTA5		FTM0_CH2	RMII0_RXER/ MII0_RXER	CMP2_OUT	I2S0_RX_BCLK	JTAG_TRST	
40	VDD	VDD	VDD								
41	VSS	VSS	VSS								
42	PTA12	CMP2_IN0	CMP2_IN0	PTA12	CAN0_TX	FTM1_CH0	RMII0_RXD1/ MII0_RXD1		I2S0_TXD	FTM1_QD_PHA	
43	PTA13	CMP2_IN1	CMP2_IN1	PTA13	CAN0_RX	FTM1_CH1	RMII0_RXD0/ MII0_RXD0		I2S0_TX_FS	FTM1_QD_PHB	

100 LQFP	Pin Name	Default	ALT0	ALT1	ALT2	ALT3	ALT4	ALT5	ALT6	ALT7	EzPort
44	PTA14	DISABLED		PTA14	SPI0_PCS0	UART0_TX	RMII0_CRS_DV/ MII0_RXDV		I2S0_TX_BCLK		
45	PTA15	DISABLED		PTA15	SPI0_SCK	UART0_RX	RMII0_TXEN /MII0_TXEN		I2S0_RXD		
46	PTA16	DISABLED		PTA16	SPI0_SOUT	UART0_CTS_b	RMII0_TXD0 /MII0_TXD0		I2S0_RX_FS		
47	PTA17	ADC1_SE17	ADC1_SE17	PTA17	SPI0_SIN	UART0_RTS_b	RMII0_TXD1 /MII0_TXD1		I2S0_MCLK	I2S0_CLKIN	
48	VDD	VDD	VDD								
49	VSS	VSS	VSS								
50	PTA18	EXTAL	EXTAL	PTA18		FTM0_FLT2	FTM_CLKIN0				
51	PTA19	XTAL	XTAL	PTA19		FTM1_FLT0	FTM_CLKIN1		LPT0_ALT1		
52	RESET_b	RESET_b	RESET_b								
53	PTB0	/ADC0_SE8/ ADC1_SE8/ TSI0_CH0	/ADC0_SE8/ ADC1_SE8/ TSI0_CH0	PTB0	I2C0_SCL	FTM1_CH0	RMII0_MDIO /MII0_MDIO		FTM1_QD_PHA		
54	PTB1	/ADC0_SE9/ ADC1_SE9/ TSI0_CH6	/ADC0_SE9/ ADC1_SE9/ TSI0_CH6	PTB1	I2C0_SDA	FTM1_CH1	RMII0_MDC/ MII0_MDC		FTM1_QD_PHB		
55	PTB2	/ ADC0_SE12/ TSI0_CH7	/ ADC0_SE12/ TSI0_CH7	PTB2	I2C0_SCL	UART0_RTS_b	ENET0_1588_TMR0		FTM0_FLT3		
56	PTB3	/ ADC0_SE13/ TSI0_CH8	/ ADC0_SE13/ TSI0_CH8	PTB3	I2C0_SDA	UART0_CTS_b	ENET0_1588_TMR1		FTM0_FLT0		
57	PTB9			PTB9	SPI1_PCS1	UART3_CTS_b		FB_AD20			
58	PTB10	/ADC1_SE14	/ADC1_SE14	PTB10	SPI1_PCS0	UART3_RX		FB_AD19	FTM0_FLT1		
59	PTB11	/ADC1_SE15	/ADC1_SE15	PTB11	SPI1_SCK	UART3_TX		FB_AD18	FTM0_FLT2		
60	VSS	VSS	VSS								
61	VDD	VDD	VDD								
62	PTB16	/TSI0_CH9	/TSI0_CH9	PTB16	SPI1_SOUT	UART0_RX		FB_AD17	EWM_IN		
63	PTB17	/TSI0_CH10	/TSI0_CH10	PTB17	SPI1_SIN	UART0_TX		FB_AD16	EWM_OUT_b		
64	PTB18	/TSI0_CH11	/TSI0_CH11	PTB18	CAN0_TX	FTM2_CH0	I2S0_TX_BCLK	FB_AD15	FTM2_QD_PHA		
65	PTB19	/TSI0_CH12	/TSI0_CH12	PTB19	CAN0_RX	FTM2_CH1	I2S0_TX_FS	FB_OE_b	FTM2_QD_PHB		
66	PTB20			PTB20	SPI2_PCS0			FB_AD31	CMP0_OUT		
67	PTB21			PTB21	SPI2_SCK			FB_AD30	CMP1_OUT		
68	PTB22			PTB22	SPI2_SOUT			FB_AD29	CMP2_OUT		
69	PTB23			PTB23	SPI2_SIN	SPI0_PCS5		FB_AD28			

100 LQFP	Pin Name	Default	ALT0	ALT1	ALT2	ALT3	ALT4	ALT5	ALT6	ALT7	EzPort
70	PTC0	/ ADC0_SE14/ TSI0_CH13	/ ADC0_SE14/ TSI0_CH13	PTC0	SPI0_PCS4	PDB0_EXTRG	I2S0_TXD	FB_AD14			
71	PTC1	/ ADC0_SE15/ TSI0_CH14	/ ADC0_SE15/ TSI0_CH14	PTC1	SPI0_PCS3	UART1_RTS_b	FTM0_CH0	FB_AD13			
72	PTC2	/ ADC0_SE4b/ CMP1_IN0/ TSI0_CH15	/ ADC0_SE4b/ CMP1_IN0/ TSI0_CH15	PTC2	SPI0_PCS2	UART1_CTS_b	FTM0_CH1	FB_AD12			
73	PTC3	/CMP1_IN1	/CMP1_IN1	PTC3	SPI0_PCS1	UART1_RX	FTM0_CH2	FB_CLKOUT			
74	VSS	VSS	VSS								
75	VDD	VDD	VDD								
76	PTC4			PTC4	SPI0_PCS0	UART1_TX	FTM0_CH3	FB_AD11	CMP1_OUT		
77	PTC5			PTC5	SPI0_SCK		LPT0_ALT2	FB_AD10	CMP0_OUT		
78	PTC6	/CMP0_IN0	/CMP0_IN0	PTC6	SPI0_SOUT	PDB0_EXTRG		FB_AD9			
79	PTC7	/CMP0_IN1	/CMP0_IN1	PTC7	SPI0_SIN			FB_AD8			
80	PTC8	/ ADC1_SE4b/ CMP0_IN2	/ ADC1_SE4b/ CMP0_IN2	PTC8		I2S0_MCLK	I2S0_CLKIN	FB_AD7			
81	PTC9	/ ADC1_SE5b/ CMP0_IN3	/ ADC1_SE5b/ CMP0_IN3	PTC9			I2S0_RX_BCLK	FB_AD6	FTM2_FLT0		
82	PTC10	/ ADC1_SE6b/ CMP0_IN4	/ ADC1_SE6b/ CMP0_IN4	PTC10	I2C1_SCL		I2S0_RX_FS	FB_AD5			
83	PTC11	/ADC1_SE7b	/ADC1_SE7b	PTC11	I2C1_SDA		I2S0_RXD	FB_RW_b			
84	PTC12			PTC12		UART4_RTS_b		FB_AD27			
85	PTC13			PTC13		UART4_CTS_b		FB_AD26			
86	PTC14			PTC14		UART4_RX		FB_AD25			
87	PTC15			PTC15		UART4_TX		FB_AD24			
88	VSS	VSS	VSS								
89	VDD	VDD	VDD								
90	PTC16			PTC16	CAN1_RX	UART3_RX	ENET0_1588_TMR0	FB_CS5_b/ FB_TSIZ1/ FB_BE23_16_BLS15_8_b			
91	PTC17			PTC17	CAN1_TX	UART3_TX	ENET0_1588_TMR1	FB_CS4_b/ FB_TSIZ0/ FB_BE31_24_BLS7_0_b			
92	PTC18			PTC18		UART3_RTS_b	ENET0_1588_TMR2	FB_TBST_b/ FB_CS2_b/ FB_BE15_8_BLS23_16_b			

100 LQFP	Pin Name	Default	ALT0	ALT1	ALT2	ALT3	ALT4	ALT5	ALT6	ALT7	EzPort
93	PTD0			PTD0	SPI0_PCS0	UART2_RTS_b		FB_ALE/ FB_CS1_b/ FB_TS_b			
94	PTD1	/ADC0_SE5b	/ADC0_SE5b	PTD1	SPI0_SCK	UART2_CTS_b		FB_CS0_b			
95	PTD2			PTD2	SPI0_SOUT	UART2_RX		FB_AD4			
96	PTD3			PTD3	SPI0_SIN	UART2_TX		FB_AD3			
97	PTD4			PTD4	SPI0_PCS1	UART0_RTS_b	FTM0_CH4	FB_AD2	EWM_IN		
98	PTD5	/ADC0_SE6b	/ADC0_SE6b	PTD5	SPI0_PCS2	UART0_CTS_b	FTM0_CH5	FB_AD1	EWM_OUT_b		
99	PTD6	/ADC0_SE7b	/ADC0_SE7b	PTD6	SPI0_PCS3	UART0_RX	FTM0_CH6	FB_AD0	FTM0_FLT0		
100	PTD7			PTD7	CMT_IRO	UART0_TX	FTM0_CH7		FTM0_FLT1		

8.2 K60 Pinouts

The below figure shows the pinout diagram for the devices supported by this document. Many signals may be multiplexed onto a single pin. To determine what signals can be used on which pin, see the previous section.