KL05Z (32QFx)	Pin Name	On Board	IO header	DEFAULT	ALTO	ALT1	ALT2	ALT3
1	PTB6/IRQ_2/LPTMR0_ALT3		D6	DISABLED		PTB6/IRQ_2/LPTMR0_ALT3	TPM0_CH3	TPM_CLKIN1
2	PTB7/IRQ_3		D7	DISABLED		PTB7/IRQ_3	TPM0_CH2	
3	VDD	VDD	3V3	VDD	VDD			
4	VREFH	VREFH	AREF	VREFH	VREFH			
5	VREFL	VREFL	ı	VREFL	VREFL			
6	VSS	VSS	GND	VSS	VSS			
7	PTA3	32 KHz XTAL	ı	EXTAL0	EXTAL0	PTA3	I2CO_SCL	I2CO_SDA
8	PTA4/LLWU_P0	32 KHz XTAL	ı	XTAL0	XTAL0	PTA4/LLWU_P0	I2CO_SDA	I2CO_SCL
9	PTA5/LLWU_P1/RTC_CLK_IN		D10	DISABLED		PTA5/LLWU_P1/RTC_CLK_IN	TPM0_CH5	SPI0_SS_b
10	PTA6/LLWU_P2		D12	DISABLED		PTA6/LLWU_P2	TPM0_CH4	SPI0_MISO
11	PTB8	Red LED	A0	ADCO_SE11	ADCO_SE11	PTB8	TPM0_CH3	
12	PTB9	Green LED	A1	ADC0_SE10	ADC0_SE10	PTB9	TPM0_CH2	
13	PTB10	Blue LED	D8	ADC0_SE9/TSI0_IN7	ADC0_SE9/TSI0_IN7	PTB10	TPM0_CH1	
14	PTB11		D9	ADC0_SE8/TSI0_IN6	ADC0_SE8/TSI0_IN6	PTB11	TPM0_CH0	
15	PTA7/IRQ_7/LLWU_P3		D11	ADC0_SE7/TSI0_IN5	ADC0_SE7/TSI0_IN5	PTA7/IRQ_7/LLWU_P3	SPI0_MISO	SPI0_MOSI
16	PTB0/IRQ_8/LLWU_P4		D13	ADC0_SE6/TSI0_IN4	ADC0_SE6/TSI0_IN4	PTB0/IRQ_8/LLWU_P4	EXTRG_IN	SPIO_SCK
17	PTB1/IRQ_9		D1	ADC0_SE5/TSI0_IN3/DAC0_OUT/CMP0_IN3	ADC0_SE5/TSI0_IN3/DAC0_OUT/CMP0_IN3	PTB1/IRQ_9	UARTO_TX	UARTO_RX
18	PTB2/IRQ_10/LLWU_P5		D0	ADC0_SE4/TSI0_IN2	ADC0_SE4/TSI0_IN2	PTB2/IRQ_10/LLWU_P5	UARTO_RX	UARTO_TX
19	PTA8		A2	ADC0_SE3/TSI0_IN1	ADC0_SE3/TSI0_IN1	PTA8		
20	PTA9		A4	ADC0_SE2/TSI0_IN0	ADC0_SE2/TSI0_IN0	PTA9		
21	PTA10/IRQ_12	Accel INT2	D4	DISABLED	TSIO_IN11	PTA10/IRQ_12		
22	PTA11/IRQ_13		D2	DISABLED	TSIO_IN10	PTA11/IRQ_13		
23	PTB3/IRQ_14	Accel I2C	D15	DISABLED		PTB3/IRQ_14	I2CO_SCL	UARTO_TX
24	PTB4/IRQ_15/LLWU_P6	Accel I2C	D14	DISABLED		PTB4/IRQ_15/LLWU_P6	I2C0_SDA	UARTO_RX
25	PTB5/IRQ_16		D3	NMI_b	ADC0_SE1/CMP0_IN1	PTB5/IRQ_16	TPM1_CH1	NMI_b
26	PTA12/IRQ_17		D5	ADC0_SE0/CMP0_IN0	ADC0_SE0/CMP0_IN0	PTA12/IRQ_17/LPTMR0_ALT2	TPM1_CH0	TPM_CLKIN0
27	PTA13	Touch Slider	1	TSIO_IN9	TSIO_IN9	PTA13		
28	PTB12	Touch Slider	1	TSIO_IN8	TSIO_IN8	PTB12		
29	PTB13		A5	ADCO_SE13	ADC0_SE13	PTB13	TPM1_CH1	RTC_CLKOUT
30	PTA0/IRQ_0/LLWU_P7	SWD_CLK	A3	SWD_CLK	ADC0_SE12/CMP0_IN2	PTA0/IRQ_0/LLWU_P7	TPM1_CH0	SWD_CLK
31	PTA1/IRQ_1/LPTMR0_ALT1	RESET	RESET	RESET_b		PTA1/IRQ_1/LPTMR0_ALT1	TPM_CLKIN0	RESET_b
32	PTA2	SWD_DIO	ı	SWD_DIO		PTA2	CMP0_OUT	SWD_DIO

Core Function
Timer / PWM
ADC
ADC / Comp
12C
SPI
UART
IRQ
Touch

		UART	PWM G	SPIO	Interrupt	I2C	SPI	A/D	Input Capture Comparator LED
D0	Arduino Uno	RX		✓	✓				
	FREEDOM-KL05Z	UARTO_RX	P	TB2	IRQ_10/LLWU_P5			ADC0_SE4/TSI0_IN2	
D1	Arduino Uno	TX		✓	✓				
	FREEDOM-KL05Z	UARTO_TX	Р	TB1	IRQ_9			ADC0_SE5/TSI0_IN3/DAC0_OUT	CMP0_IN3
D2	Arduino Uno			✓	✓				
	FREEDOM-KL05Z		P ⁻	TA11	IRQ_13				
D3	Arduino Uno		✓	√	✓				
	FREEDOM-KL05Z		TPM1_CH1 P	TB5	IRQ_16			ADC0_SE1	CMP0_IN1
D4	Arduino Uno			✓	✓	ļ			
	FREEDOM-KL05Z			TA10	IRQ_12				
D5	Arduino Uno		✓	√	✓				
	FREEDOM-KL05Z		TPM1_CH0 P		IRQ_17				
D6	Arduino Uno		✓	✓	✓	ļ			✓
	FREEDOM-KL05Z		TPM0_CH3 P	тв6	IRQ_2				X
D7	Arduino Uno	ı		√	√	ļ			√
	FREEDOM-KL05Z		FTM0_CH2 P	TB7	IRQ_3				X
D8	Arduino Uno	Ī		✓	✓	l			•
	FREEDOM-KL05Z		· — ·	TB10	X			ADC0_SE9/TSI0_IN7	
D9	Arduino Uno		✓	✓	✓	l			•
	FREEDOM-KL05Z		_	TB11	X			ADCO_SE8/TSIO_IN6	
D10	Arduino Uno		✓	√	✓		CS		
	FREEDOM-KL05Z		TPM0_CH5 P	TA5	X		SPIO_SS_b		
D11	Arduino Uno			√	√ 		MOSI	* D CO SET /TSIO INIT	•
- 10	FREEDOM-KL05Z		P	TA7	IRQ_7/LLWU_P3		SPI0_MOSI	ADC0_SE7/TSI0_IN5	
D12	Arduino Uno	ı	TD140 CU4	√	√		MISO		
- 10	FREEDOM-KL05Z		TPM0_CH4 P	TA6 ✓	X ✓		SPIO_MISO		
D13	Arduino Uno						CLK	ADCO SEC/TSIO INA	1
D14	FREEDOM-KL05Z Arduino Uno		P	TB0 ✓	IRQ_8/LLWU_P4 ✓	SDA	SPIO_SCK	ADC0_SE6/TSI0_IN4	
D14	FREEDOM-KL05Z	UARTO RX	l ,	TB4	IRQ_15/LLWU_P6	I2CO SDA			
D1E	Arduino Uno	UARTU_RX	Ρ	√ √		SCL			
סנט	FREEDOM-KL05Z	UARTO_TX	l .	TB3	IRQ_14	I2CO_SCL			
A0	Arduino Uno	UARTO_TX	,	√ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		12C0_3CL		✓	
AU	FREEDOM-KL05Z		р	TB8	X			ADCO_SE11	
A1	Arduino Uno		!	√				ADC0_3E11 ✓	
ΑI	FREEDOM-KL05Z		Г	TB9	X	ĺ		ADCO SE10	
A2	Arduino Uno		<u> </u>	√ ·				ADC0_3E10 ✓	
/ _	FREEDOM-KL05Z			TA8	X	1		ADC0_SE3/TSI0_IN1	
A3	Arduino Uno		<u>_ '</u>	√ ·				AD CO_3E3/1310_HV1 ✓	
7.5	FREEDOM-KL05Z		P	TA0	IRQ 0/LLWU P7			ADC0 SE12/CMP0 IN2	CMPO IN2
A4	Arduino Uno		·	√ V	/ / / / / / / / / / / / / / / / / / /	SDA		/\Beo_SE12/e\\I\\O_\\\	
	FREEDOM-KL05Z		P	TA9	X	X		ADC0_SE2/TSI0_IN0	
A5	Arduino Uno		·	√ ·	<i>→</i>	SCL		✓	
5	FREEDOM-KL05Z	ĺ	TPM1_CH1_P	TB13	X	X		ADC0 SE13	
					•••				