

FRDM-KL26Z引脚用法和引脚分配图表

FRDM-KL26Z Pins												
On-board Usage	Arduino™ R3 Pin Name	FRDM-KL26Z Pin Name	KL26Z Pin # (64 LQFP)	ALT0	ALT1	ALT2	ALT3	ALT4	ALT5	ALT6	ALT7	Reset State/Function
—	D14	PTE0	1		PTE0	SPI1_MISO	UART1_TX	RTC_CLKOUT	CMP0_OUT	I2C1_SDA		DISABLED
—	D15	PTE1	2		PTE1	SPI1_MOSI	UART1_RX		SPI1_MISO	I2C1_SCL		DISABLED
Power	—	VDD	3	VDD								VDD
Power	—	VSS	4	VSS								VSS
USB	—	USB0_DP	5	USB0_DP								USB0_DP
USB	—	USB0_DM	6	USB0_DM								USB0_DM
2.2uF cap	—	VOUT33	7	VOUT33								VOUT33
USB VBUS (5V)	—	VREGIN	8	VREGIN								VREGIN
—	—	PTE20	9	ADC0_DP0/ADC0_SE0	PTE20		TPM1_CH0	UART0_TX				ADC0_DP0/ADC0_SE0
—	—	PTE21	10	ADC0_DM0/ADC0_SE4a	PTE21		TPM1_CH1	UART0_RX				ADC0_DM0/ADC0_SE4a
—	—	PTE22	11	ADC0_DP3/ADC0_SE3	PTE22		TPM2_CH0	UART2_TX				ADC0_DP3/ADC0_SE3
—	—	PTE23	12	ADC0_DM3/ADC0_SE7a	PTE23		TPM2_CH1	UART2_RX				ADC0_DM3/ADC0_SE7a
Power	—	VDDA	13	VDDA								VDDA
Power	AREF*	VREFH	14	VREFH								VREFH
Power	—	VREFL	15	VREFL								VREFL
Power	—	VSSA	16	VSSA								VSSA
Red LED	—	PTE29	17	CMP0_IN5/ADC0_SE4b	PTE29		TPM0_CH2	TPM_CLKIN0				CMP0_IN5/ADC0_SE4b
—	—	PTE30	18	DAC0_OUT/ADC0_SE23/CMP0_IN4	PTE30		TPM0_CH3	TPM_CLKIN1				DAC0_OUT/ADC0_SE23/CMP0_IN4
Green LED	—	PTE31	19		PTE31		TPM0_CH4					DISABLED
Inertial Sensor I2C	—	PTE24	20		PTE24		TPM0_CH0		I2C0_SCL			DISABLED
Inertial Sensor I2C	—	PTE25	21		PTE25		TPM0_CH1		I2C0_SDA			DISABLED
Debug (SWD_CLK)	—	PTA0	22	TSI0_CH1	PTA0		TPM0_CH5				SWD_CLK	SWD_CLK
—	D0	PTA1	23	TSI0_CH2	PTA1	UART0_RX	TPM2_CH0					DISABLED
—	D1	PTA2	24	TSI0_CH3	PTA2	UART0_TX	TPM2_CH1					DISABLED
Debug (SWD_DIO)	—	PTA3	25	TSI0_CH4	PTA3	I2C1_SCL	TPM0_CH0				SWD_DIO	SWD_DIO
—	D4	PTA4	26	TSI0_CH5	PTA4	I2C1_SDA	TPM0_CH1				NMI_b	NMI_b
—	D5	PTA5	27		PTA5	USB_CLKIN	TPM0_CH2			I2S0_TX_BCLK		DISABLED
—	D3	PTA12	28		PTA12		TPM1_CH0			I2S0_TXD0		DISABLED
—	D8	PTA13	29		PTA13		TPM1_CH1			I2S0_TX_FS		DISABLED
Power	—	VDD	30	VDD								VDD
Power	—	VSS	31	VSS								VSS
8MHz XTAL	—	PTA18	32	EXTAL0	PTA18		UART1_RX	TPM_CLKIN0				EXTAL0
8MHz XTAL	—	PTA19	33	XTAL0	PTA19		UART1_TX	TPM_CLKIN1		LPTMR0_ALT1		XTAL0
Reset	—	PTA20	34		PTA20						RESET_b	RESET_b
—	A0	PTB0	35	ADC0_SE8/TSI0_CH0	PTB0/LLWU_P5	I2C0_SCL	TPM1_CH0					ADC0_SE8/TSI0_CH0
—	A1	PTB1	36	ADC0_SE9/TSI0_CH6	PTB1	I2C0_SDA	TPM1_CH1					ADC0_SE9/TSI0_CH6
—	A2	PTB2	37	ADC0_SE12/TSI0_CH7	PTB2	I2C0_SCL	TPM2_CH0					ADC0_SE12/TSI0_CH7
—	A3	PTB3	38	ADC0_SE13/TSI0_CH8	PTB3	I2C0_SDA	TPM2_CH1					ADC0_SE13/TSI0_CH8
Touch Slider	—	PTB16	39	TSI0_CH9	PTB16	SPI1_MOSI	UART0_RX	TPM_CLKIN0	SPI1_MISO			TSI0_CH9
Touch Slider	—	PTB17	40	TSI0_CH10	PTB17	SPI1_MISO	UART0_TX	TPM_CLKIN1	SPI1_MOSI			TSI0_CH10
—	—	PTB18	41	TSI0_CH11	PTB18		TPM2_CH0	I2S0_TX_BCLK				TSI0_CH11
—	—	PTB19	42	TSI0_CH12	PTB19		TPM2_CH1	I2S0_TX_FS				TSI0_CH12

—	—	PTC0	43	ADC0_SE14/TSI0_CH13	PTC0		EXTRG_IN	AudioUSB_SOF_OUT	CMP0_OUT	I2S0_TXD0		ADC0_SE14/TSI0_CH13
—	A5	PTC1	44	ADC0_SE15/TSI0_CH14	PTC1/LLWU_P6/RTC_CLKIN	I2C1_SCL		TPM0_CH0		I2S0_TXD0		ADC0_SE15/TSI0_CH14
—	A4	PTC2	45	ADC0_SE11/TSI0_CH15	PTC2	I2C1_SDA		TPM0_CH1		I2S0_TX_FS		ADC0_SE11/TSI0_CH15
Inertial Sensor INT1/Pushbutton	—	PTC3	46		PTC3/LLWU_P7		UART1_RX	TPM0_CH2	CLKOUT	I2S0_TX_BCLK		DISABLED
Power	—	VSS	47	VSS								VSS
Power	—	VDD	48	VDD								VDD
—	—	PTC4	49		PTC4/LLWU_P8	SPI0_PCS0	UART1_TX	TPM0_CH3	I2S0_MCLK			DISABLED
—	—	PTC5	50		PTC5/LLWU_P9	SPI0_SCK	LPTMR0_ALT2	I2S0_RXD0		CMP0_OUT		DISABLED
—	—	PTC6	51	CMP0_IN0	PTC6/LLWU_P10	SPI0_MOSI	EXTRG_IN	I2S0_RX_BCLK	SPI0_MISO	I2S0_MCLK		CMP0_IN0
—	—	PTC7	52	CMP0_IN1	PTC7	SPI0_MISO	AudioUSB_SOF_OUT	I2S0_RX_FS	SPI0_MOSI			CMP0_IN1
—	D6	PTC8	53	CMP0_IN2	PTC8	I2C0_SCL	TPM0_CH4	I2S0_MCLK				CMP0_IN2
—	D7	PTC9	54	CMP0_IN3	PTC9	I2C0_SDA	TPM0_CH5	I2S0_RX_BCLK				CMP0_IN3
—	—	PTC10	55		PTC10	I2C1_SCL		I2S0_RX_FS				DISABLED
—	—	PTC11	56		PTC11	I2C1_SDA		I2S0_RXD0				DISABLED
Inertial Sensor INT1	—	PTD0	57		PTD0	SPI0_PCS0		TPM0_CH0				DISABLED
Inertial Sensor INT2	—	PTD1	58	ADC0_SE5b	PTD1	SPI0_SCK		TPM0_CH1				ADC0_SE5b
—	D9	PTD2	59		PTD2	SPI0_MOSI	UART2_RX	TPM0_CH2	SPI0_MISO			DISABLED
—	D2	PTD3	60		PTD3	SPI0_MISO	UART2_TX	TPM0_CH3	SPI0_MOSI			DISABLED
—	D10	PTD4	61		PTD4/LLWU_P14	SPI1_PCS0	UART2_RX	TPM0_CH4				DISABLED
Blue LED	D13	PTD5	62	ADC0_SE6b	PTD5	SPI1_SCK	UART2_TX	TPM0_CH5				ADC0_SE6b
—	D11	PTD6	63	ADC0_SE7b	PTD6/LLWU_P15	SPI1_MOSI	UART0_RX		SPI1_MISO			ADC0_SE7b
—	D12	PTD7	64		PTD7	SPI1_MISO	UART0_TX		SPI1_MOSI			DISABLED
Power	GND	GND										
—	RFU	SDA_PTD5										
Power	IOREF	P3V3										
Power	3.3V	P3V3										
Power	5V	P5V_USB										
Power	GND	GND										
Power	GND	GND										
Power	VIN	P5-9V_VIN										

* AREF默认不连接到VREFH。VREFH默认连接到P3V3_KL26Z。为了向外部AREF供电，应移除R10并安装一个0Ω电阻或将R9短路。

= 有效的信号选择

FRDM-KL26Z I/O连接器信号连接

J1				J2				J3				J4			
Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
J1 01	PTB18	J1 02	PTA1	J2 01	NC	J2 02	PTA13	J3 01	NC	J3 02	SDA_PTD5	J4 01	PTE20	J4 02	PTB0
J1 03	PTB19	J1 04	PTA2	J2 03	NC	J2 04	PTD2	J3 03	NC	J3 04	P3V3	J4 03	PTE21	J4 04	PTB1
J1 05	PTC0	J1 06	PTD3	J2 05	NC	J2 06	PTD4	J3 05	NC	J3 06	PTA20	J4 05	PTE22	J4 06	PTB2
J1 07	PTC4	J1 08	PTA12	J2 07	NC	J2 08	PTD6	J3 07	NC	J3 08	P3V3	J4 07	PTE23	J4 08	PTB3
J1 09	PTC6	J1 10	PTA4	J2 09	NC	J2 10	PTD7	J3 09	NC	J3 10	P5V_USB	J4 09	PTC5	J4 10	PTC2
J1 11	PTC7	J1 12	PTA5	J2 11	NC	J2 12	PTD5	J3 11	NC	J3 12	GND	J4 11	PTE30	J4 12	PTC1
J1 13	PTC10	J1 14	PTC8	J2 13	NC	J2 14	GND	J3 13	NC	J3 14	GND				
J1 15	PTC11	J1 16	PTC9	J2 15	NC	J2 16	VREFH	J3 15	NC	J3 16	P5-9V_VIN				
				J2 17	NC	J2 18	PTE0								
				J2 19	NC	J2 20	PTE1								

D0	Arduino Uno R3
	FREEDOM-KL26Z (PTA1)
D1	Arduino Uno R3
	FREEDOM-KL26Z (PTA2)
D2	Arduino Uno R3
	FREEDOM-KL26Z (PTD3)
D3	Arduino Uno R3
	FREEDOM-KL26Z (PTA12)
D4	Arduino Uno R3
	FREEDOM-KL26Z (PTA4)
D5	Arduino Uno R3
	FREEDOM-KL26Z (PTA5)
D6	Arduino Uno R3
	FREEDOM-KL26Z (PTC8)
D7	Arduino Uno R3
	FREEDOM-KL26Z (PTC9)
D8	Arduino Uno R3
	FREEDOM-KL26Z (PTA13)
D9	Arduino Uno R3
	FREEDOM-KL26Z (PTD2)
D10	Arduino Uno R3
	FREEDOM-KL26Z (PTD4)
D11	Arduino Uno R3
	FREEDOM-KL26Z (PTD6)
D12	Arduino Uno R3
	FREEDOM-KL26Z (PTD7)
D13	Arduino Uno R3
	FREEDOM-KL26Z (PTD5)
D14	Arduino Uno R3
	FREEDOM-KL26Z (PTE0)
D15	Arduino Uno R3
	FREEDOM-KL26Z (PTE1)
A0	Arduino Uno R3
	FREEDOM-KL26Z (PTB0)
A1	Arduino Uno R3
	FREEDOM-KL26Z (PTB1)
A2	Arduino Uno R3
	FREEDOM-KL26Z (PTB2)
A3	Arduino Uno R3
	FREEDOM-KL26Z (PTB3)
A4	Arduino Uno R3
	FREEDOM-KL26Z (PTC2)
A5	Arduino Uno R3
	FREEDOM-KL26Z (PTC1)

OpenSDA引脚分配

Use Case
3.3V
GND
USB D+
USB D-
2.2uF to GND
USB VBUS (5V)
3.3V
GND
No Connect - pads for XTAL available
No Connect - pads for XTAL available
No Connect
Debug Connector
Debug Connector
Debug Connector
Debug Connector
SWD_EN (disconnecto SPI port from target)
8MHz resonator
8MHz resonator
Voltage divider to USB VBUS
SWD_OE (Output Buffer Enable)
RESET Output to target MCU
No Connect
No Connect
Connect to target MCU TX pin
Connect to target MCU RX pin
SWD_CLK to target MCU
SWD_DIO to 74*126
SWD_DIO to target MCU
Green LED
Special case -- connected to IO header
Special case -- connected to RTC_CLKIN
USB 5V Power Sense