

## Expansion

PIN	FUNCTION	CONNECTOR
PA4	ADC12_IN9, DAC1_OUT2	EXP1
PB10	I2C2_SCL, TIM2_CH3, USART3_TX, LPUART1_RX	EXP1
PB11	I2C2_SDA, TIM2_CH4, USART3_RX LPUART1_TX	EXP1
PA0	ADC1_IN5, WKUP1	EXP2
PA9	I2C1_SCL, TIM1_CH2, USART1_TX	EXP2
PA10	I2C1_SDA, TIM1_CH3, USART1_RX	EXP2
PA1	ADC1_IN6	EXP3
PB6	I2C1_SCL, TIM16_CH1N, USART1_TX	EXP3
PB7	I2C1_SDA, USART1_RX	EXP3
PA5	ADC1_IN10, DAC1_OUT2	EXP4
PB13	I2C2_SCL, TIM1_CH1N	EXP4
PB14	I2C2_SDA, TIM15_CH1	EXP4
PA3	ADC12_IN7	EXP5
PB8	I2C1_SCL, TIM16_CH1	EXP5
PB9	I2C1_SDA	EXP5

## GPIO-Expansion

PIN	FUNCTION	CONNECTION
PA2	UART	UART_TX
PA6	MISO/TX	LoRa
PA7	MOSI/RX	LoRa
PA8	COM_EN	LoRa(TPS22919)
PA11	RESET	LoRa
PA12	DIO1	LoRa
PA13	SWDIO	PROG
PA14	SWCLK	PROG
PA15	NSS_CTS	LoRa
PC13	ADC/NOT_USED	NOT_USED
NRST	RESET+TP12	PROG
PB0	BUSY	LoRa
PB1	BOOST_DISABLE	ADP5091
PB2	LLD	ADP5091
PB3	SCK_RTS	LoRa
PB4	NOT_USED	NOT_USED
PB5	NOT_USED	NOT_USED
PB12	NOT_USED	NOT_USED
PB15	SENS_EN	Sensors(TPS22919)

## LoRa

PIN	FUNCTION	CONNECTION
PA6	MISO/TX	LoRa
PA7	MOSI/RX	LoRa
PA8	COM_EN	LoRa(TPS22919)
PA11	RESET	LoRa
PA12	DIO1	LoRa
PA15	NSS_CTS	LoRa
PB0	BUSY	LoRa
PB3	SCK_RTS	LoRa

## ADP5091

PB1	BOOST_DISABLE	ADP5091
PB2	LLD	ADP5091

## PROG+DEBUG

PA13	SWDIO (SWD)	PROG
PA14	SWCLK (SWD)	PROG
NRST	RESET(TP12) (SWD HARD RESET)	PROG
PA2	UART	UART_TX

## NOT USED

PC13	ADC/NOT_USED	NOT_USED
PB4	NOT_USED	NOT_USED
PB5	NOT_USED	NOT_USED
PB12	NOT_USED	NOT_USED

## ENABLE

PA8	COM_EN	LoRa(TPS22919)
PB15	SENS_EN	Sensors