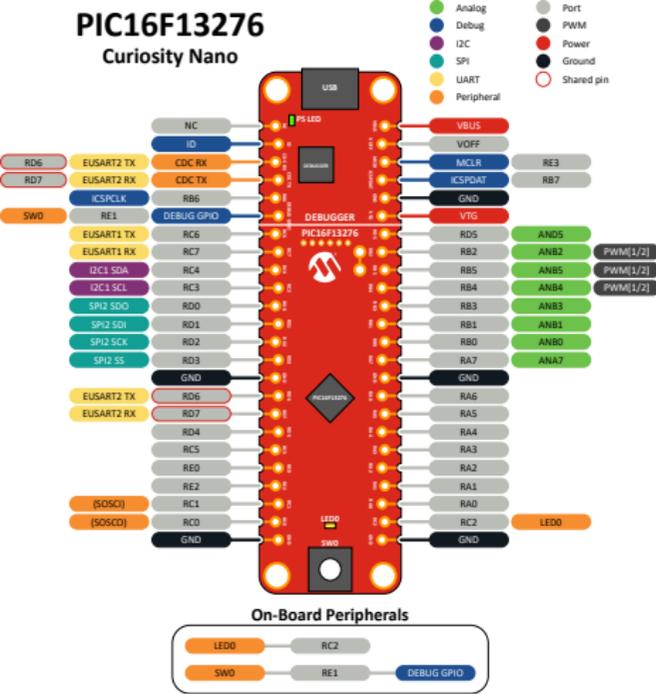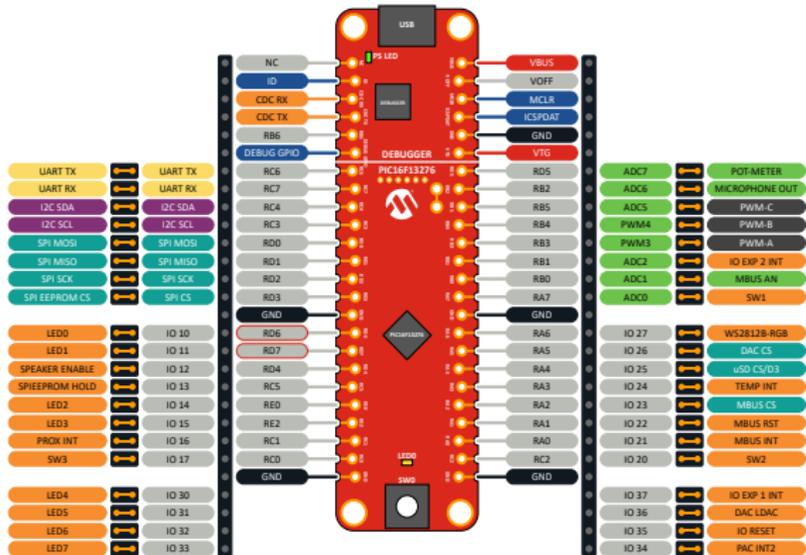# PIC16F13276
Curiosity Nano

Curiosity Nano Explorer
Mapping

Legend:
- Analog
- Debug
- I2C
- SPI
- UART
- Peripheral
- Port
- PWM
- Power
- Ground
- Shared pin

PIC16F13276 Curiosity Nano

	NC			VBUS		
	ID			VOFF		
RD6	EUSART2 TX	CDC RX		MCLR		
RD7	EUSART2 RX	CDC TX		ICSPDAT	RB7	RE3
	ICSPCLK	RB6		GND		
SW0	RE1	DEBUG GPIO		VTG		
EUSART1 TX	RC6			RD5	AND5	PWM[1/2]
EUSART1 RX	RC7			RB2	ANB2	PWM[1/2]
I2C1 SDA	RC4			RB5	ANB5	PWM[1/2]
I2C1 SCL	RC5			RB4	ANB4	
SPI2 SDO	RD0			RB3	ANB3	
SPI2 SDI	RD1			RB1	ANB1	
SPI2 SCK	RD2			RB0	ANB0	
SPI2 SS	RD3			RA7	ANA7	
	GND			GND		
EUSART2 TX	RD6			RA6		
EUSART2 RX	RD7			RA5		
	RD4			RA4		
	RC5			RA3		
	RE0			RA2		
(SOSCI)	RC1			RA1		
(SOSCO)	RC0			RA0		
	GND			GND	LED0	

On-Board Peripherals

LED0	RC2
SW0	RE1
	DEBUG GPIO

Curiosity Nano Explorer Mapping

	NC			VBUS		
	ID			VOFF		
UART TX	CDC RX			MCLR		
UART RX	CDC TX			ICSPDAT		
	RB6			GND		
	DEBUG GPIO			VTG		
UART TX	UART TX	RC6		RD5	ADC7	POT-METER
UART RX	UART RX	RC7		RB2	ADC6	MICROPHONE OUT
I2C SDA	I2C SDA	RC4		RB5	ADC5	PWM-C
I2C SCL	I2C SCL	RC5		RB4	PWM4	PWM-B
SPI MOSI	SPI MOSI	RD0		RB3	PWM3	PWM-A
SPI MISO	SPI MISO	RD1		RB1	ADC2	IO EXP 2 INT
SPI SCK	SPI SCK	RD2		RB0	ADC1	MBUS AN
SPI EEPROM CS	SPI CS	RD3		RA7	ADC0	SW1
	GND			GND		
LED0	IO 10	RD6		RA6	IO 27	WS2812B-RGB
LED1	IO 11	RD7		RA5	IO 26	DAC CS
SPEAKER ENABLE	IO 12	RD4		RA4	IO 25	uSD CS/D3
SPIEEPROM HOLD	IO 13	RC5		RA3	IO 24	TEMP INT
LED2	IO 14	RE0		RA2	IO 23	MBUS CS
LED3	IO 15	RE2		RA1	IO 22	MBUS RST
PROX INT	IO 16	RC1		RA0	IO 21	MBUS INT
SW3	IO 17	RC0		RC2	IO 20	SW2
	GND			GND		
LED4	IO 30				IO 37	IO EXP 1 INT
LED5	IO 31				IO 36	DAC LDAC
LED6	IO 32				IO 35	IO RESET
LED7	IO 33				IO 34	PAC INT2

mikroBUS™ Socket

RB0	MBUS AN	AN	PWM	PWM-A		RB3
RA1	MBUS RST	RST	INT	MBUS INT		RA0
RA2	MBUS CS	CS	RX	UART RX		RC7
RD2	SPI SCK	SCK	TX	UART TX		RC6
RD1	SPI MISO	MISO	SCL	I2C SCL		RC5
RD0	SPI MOSI	MOSI	SDA	I2C SDA		RC4
	VCC P3V3	+3.3V	+5V	VCC P5V0		
	GND	GND	GND	GND		

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