

# WIM2480 Evaluation Kit



## Product Overview

The WIM2480 Evaluation Kit provides a platform for experiencing and evaluating our modules that enable rapid wireless connectivity prototyping, provide multiple options for the development of Bluetooth Low Energy (BLE) plus Near Field Communication (NFC) applications.

The evaluation kit is designed to support the rapid development of applications and software for the WIM2480 series of BLE modules featuring Zephyr RTOS or for use with the Nordic SDK for C development. More information regarding this product series is available in the module datasheet

### Key Features

- The following power supply options
  - Micro USB Type B
  - External DC Supply (5V~18V)
- Current Measuring Options
  - Deep sleep Current
  - Standby current
- IO break-out 2.54 mm pitch pin header connectors that bring out all interfaces of the module
- Evaluate PWM/AIO/SPI/I2C/UART/IO interfaces
- UFL Connector for External Antenna interface (For WIM2480E-DK)

### Development Kit Part Numbers

Part #	Description
WIM2480C-EK	Evaluation Kit for Bluetooth + BLE Module – With Chip Antenna
WIM2480E-EK	Evaluation Kit for Bluetooth + BLE Module – With Provision for External Antenna

Applicable to the following module part numbers

Part #	Description
WIM2480C	BLE Module (Nordic nRF52833) – With Chip Antenna
WIM2480E	BLE Module (Nordic nRF52833) – With Provision for External Antenna

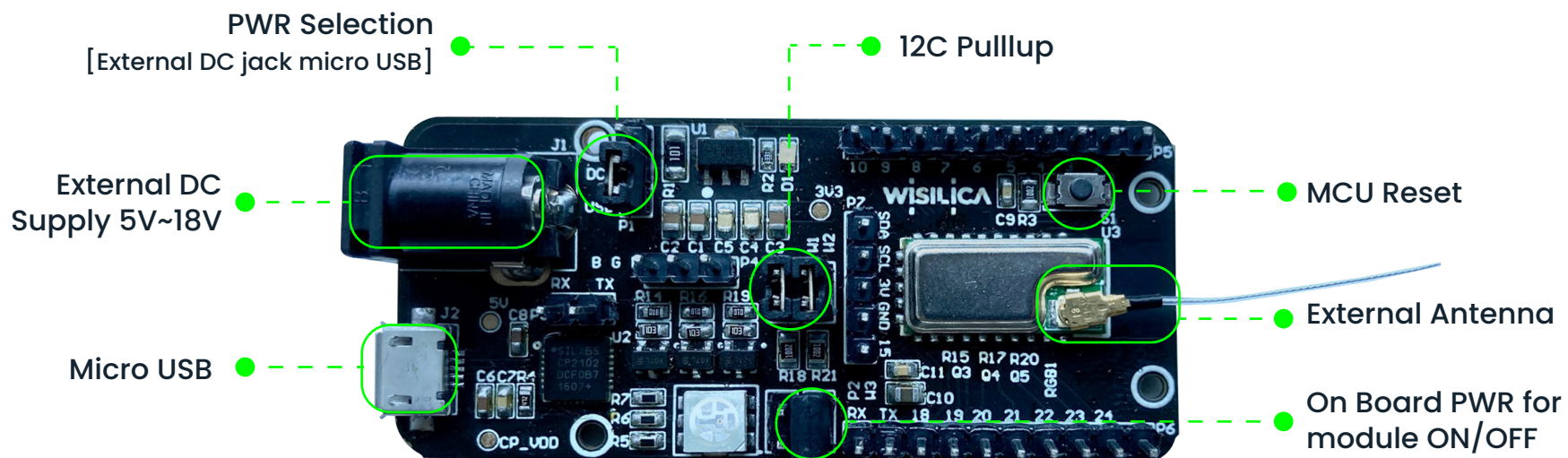
### Package Contents

- Evaluation board with module soldered on to it
- USB Cable for powering
- 4 jumpers
- 6 fly leads (1 by 1 female to female jumper cable)
- 37mm external BLE wire antenna

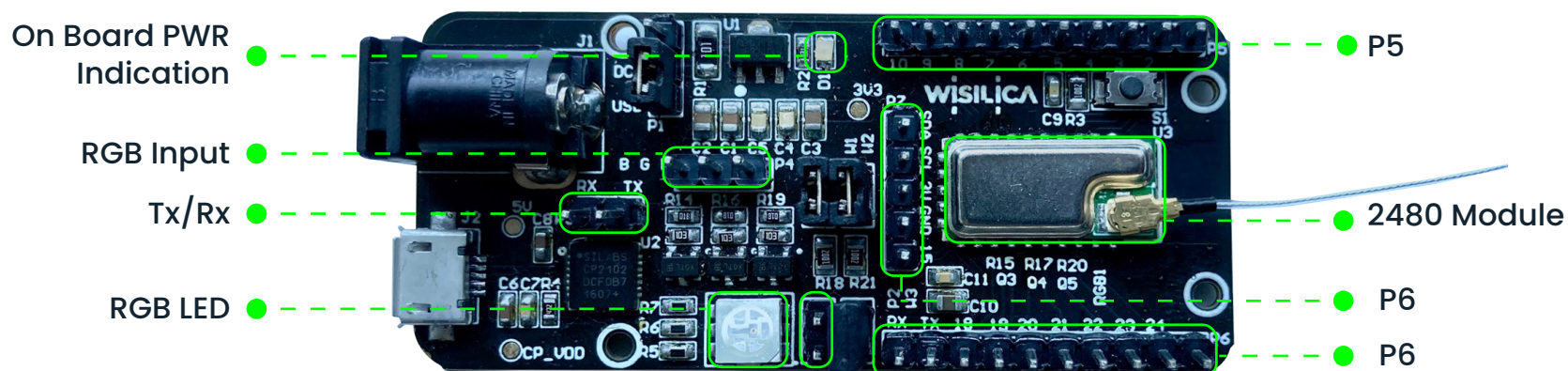
### Development Software

Programmability options are available via either [Nordic SDK](#) or [Zephyr RTOS](#)

## Default Configuration and Jumper Settings



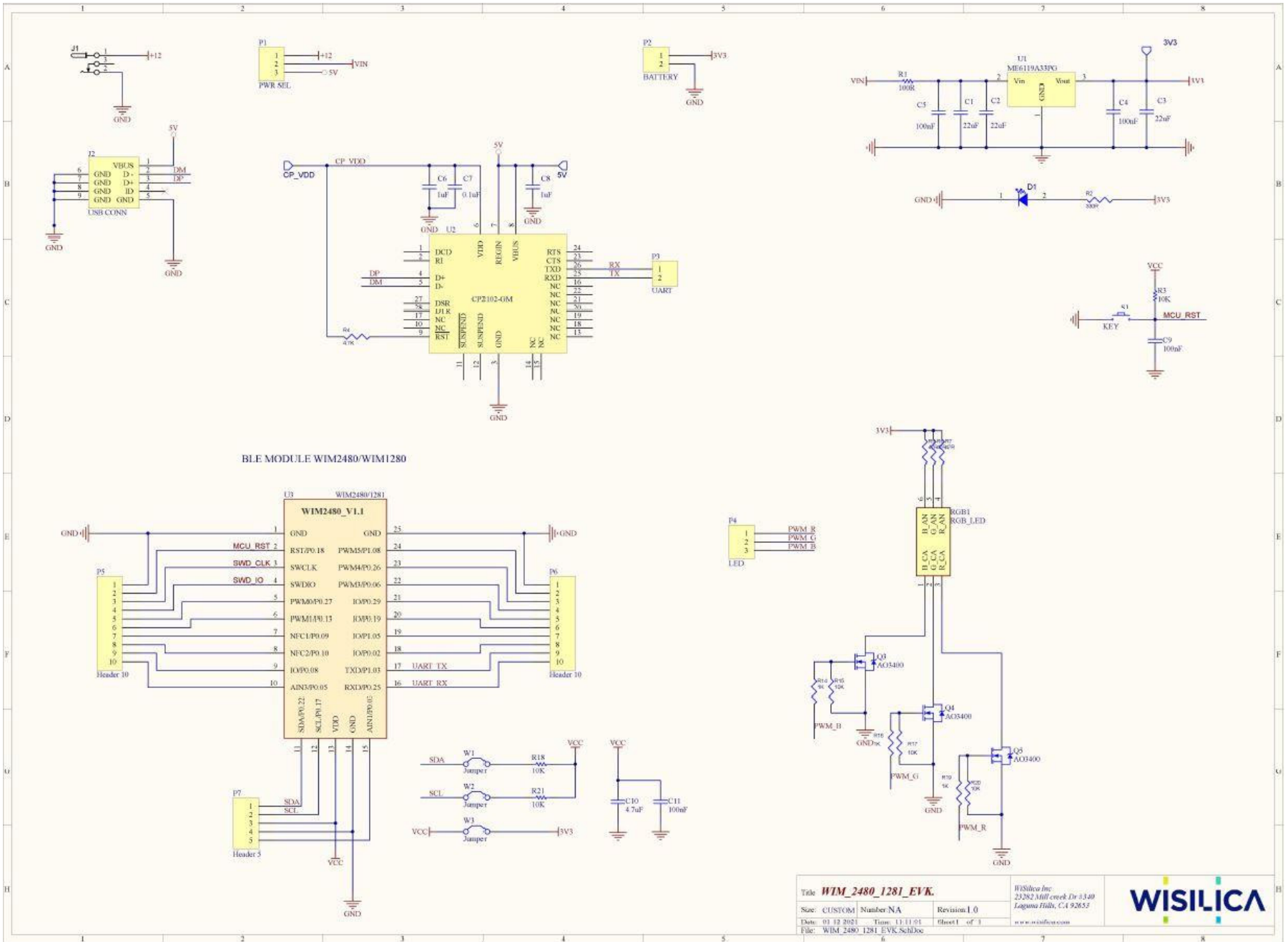
## Breakout Connector Pinouts



Most of the I/O pins on the module are broken out to the pin headers on sides of this board for easy interfacing, so users can easily connect peripherals with jumper wires.

Header		Pin No	Function
P5	1	1	GND
	2	2	RST/P0.18
	3	3	SWCLK
	4	4	SWDIO
	5	5	PWM0/P0.27
	6	6	PWM1/P0.13
	7	7	NFC1
	8	8	NFC2
	9	9	IO/P0.08
	10	10	AIN3/P0.05
P7	1	11	SDA/P0.22
	2	12	SCL/P0.17
	3	13	VDD
	4	14	GND
	5	15	AIN1/P0.03
P6	10	16	RXD/P0.25
	9	17	TXD/P1.03
	8	18	IO/P0.02
	7	19	IO/P1.05
	6	20	IO/P0.19
	5	21	IO/P0.29
	4	22	PWM3/P0.06
	3	23	PWM4/P0.26
	2	24	PWM5/P1.08
	1	25	GND

# Schematics for Evaluation



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