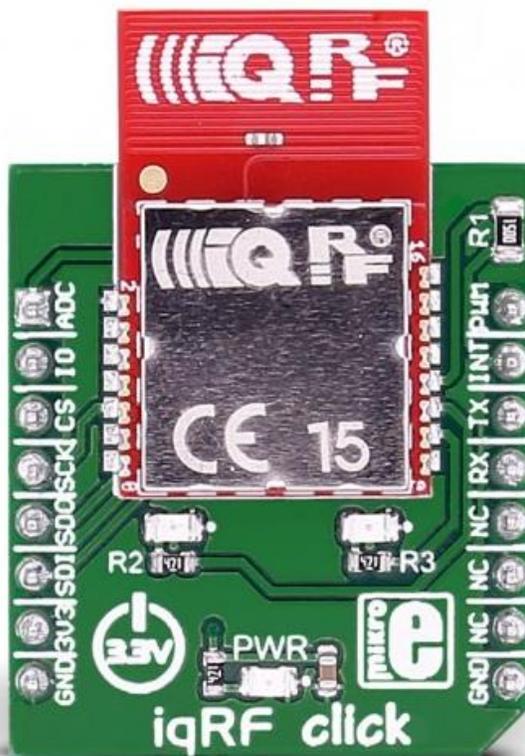


IQRF click

MIKROE-2586

Weight: 23 g



IQRF click carries the [DCTR-76DA](#) RF transceiver, operating in the 868/916 MHz frequency.

The click is designed to run on a 3.3V power supply. It communicates with the target microcontroller over SPI or UART interface, with additional functionality provided by the following pins on the mikroBUS™ line: AN, RST, PWM, INT.

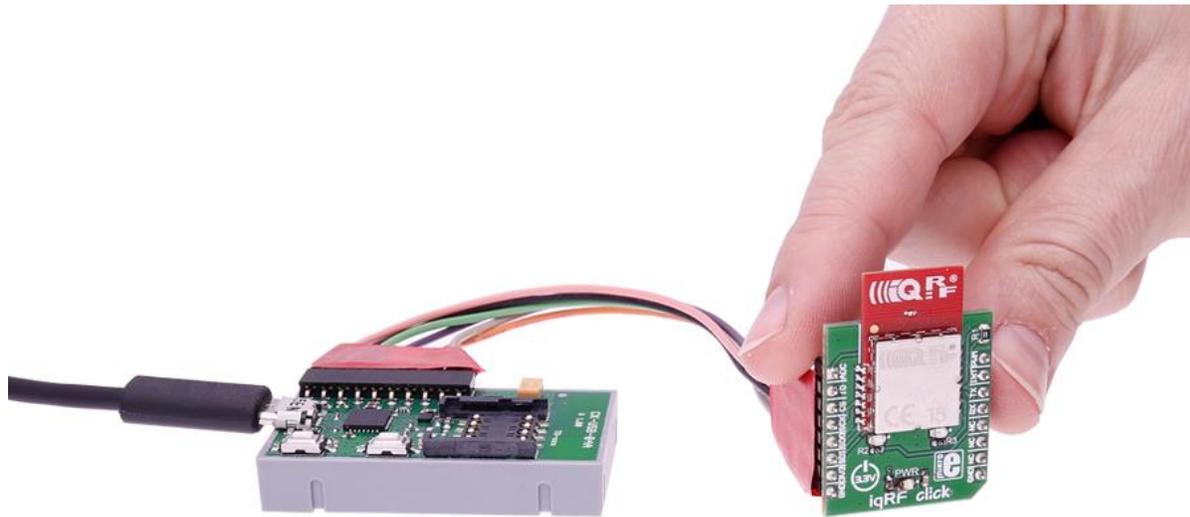
IQRF click carries the [DCTR-76DA](#) RF transceiver, operating in the 868/916 MHz frequency. The click is designed to run on a 3.3V power supply. It communicates with the target microcontroller over SPI or UART interface, with additional functionality provided by the following pins on the mikroBUS™ line: AN, RST, PWM, INT.

Module features

DCTR-76DA is an RF transceiver operating in the 868/916 MHz license-free ISM (Industry, Scientific, and Medical) frequency band. Its highly integrated ready-to-use design containing MCU, RF circuitry, serial EEPROM and optional onboard antenna requires no external components.

How the click works

RF transceiver modules DCTR-72DA fit in the SIM connector. They are fully programmable under IQRF OS operating system and allow to utilize hardware profiles under DPA framework.



To upload application codes in DCTRs and configure DCTR parameters, [CK-USB-04A kit](#) is intended. When the application is uploaded to the IQRF it can be put in mikroBUS™ socket and communicate with it with MCU.

Specifications

Type	RF Sub 1GHz
Applications	Point-to-point or network wireless connectivity, Telemetry, AMR (automatic meter reading), WSN (wireless sensor network), Building automation, Street lighting control, etc.
On-board modules	DCTR-76DA RF transceiver
Key Features	Selectable RF band 868 / 916 MHz, multiple channels
Interface	UART, Analog, GPIO, SPI
Input Voltage	3.3V
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)

Pinout diagram

This table shows how the pinout on **IQRF click** corresponds to the pinout on the mikroBUS™ socket (the latter shown in the two middle columns).

Notes	Pin					Pin	Notes
		1	AN	PWM	16		
Analog pin	ADC	1	AN	PWM	16	DIN	General I/O pin
General I/O pin	GPIO	2	RST	INT	15	INT	Interrupt
SPI enable	SPI_CS	3	CS	TX	14	TXD	UART transmit
SPI Clock	SPI_SCK	4	SCK	RX	13	RXD	UART receive
SPI Master Input Slave Output	SPI_MISO	5	MISO	SCL	12	NC	
SPI Master Output Slave Input	SPI_MOSI	6	MOSI	SDA	11	NC	
Power supply	+3.3V	7	3.3V	5V	10	NC	
Ground	GND	8	GND	GND	9	GND	Ground