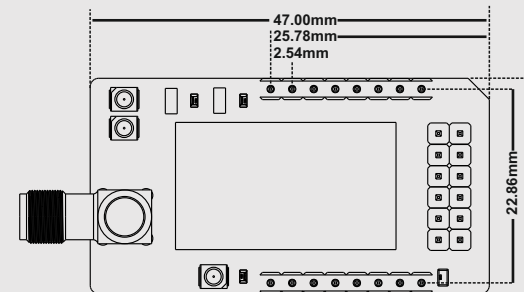




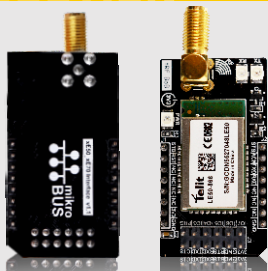
**tRF BoB**  
LE50-868  
Inside

## FEATURES

- ⊙ Range: Up to 2000 m.
- ⊙ Up to 128 kB Flash, 4kB RAM, 2 kB EEPROM.
- ⊙ 32.768 kHz RTC, 4 Timers.
- ⊙ Configurable output power.
- ⊙ 5 I/O Ports Max available.
- ⊙ Hayes mode or 'AT' mode for configuration.
- ⊙ Cyclic wake up: wakes up periodically and listens to the radio link.
- ⊙ For ultra low-power, low-latency applications.
- ⊙ Download Over The Air (DOTA).
- ⊙ Pre-certified RF modules, Header Form Factor
- ⊙ Cyclic wake up: wakes up periodically and listens to the radio link
- ⊙ PCB Dimension: 47 x 25.4 mm
- ⊙ Radio Data Rate: from 4.8 kbps to 115.2 kbps
- ⊙ Transmit (Yellow) - Receive (Red) - Power (Green) LEDs



## INTRODUCTION



"tRF BoB 50" is a form factor with a microBUS structure. It is an effective and easy solution for adding 868 MHz RF communication to your design. It features the Telit LE50-868MHz transceiver module, a SMA connector for an antenna, also two radio communication (Tx - Rx) LEDs. tBoB RF 50 communicates with the target board microcontroller via microBUS UART (Rx, Tx), AN, RST, PWM and INT lines. It has a LED diode in order to power indicator.

## APPLICATIONS

- ⊙ Telemetry
- ⊙ Automated Meter reading
- ⊙ Wireless Sensor Networks
- ⊙ Home and Building Automation
- ⊙ Wireless Alarm and Security Systems
- ⊙ Industrial Monitoring and Control
- ⊙ Long range Irrigation Systems

## POWER SUPPLY

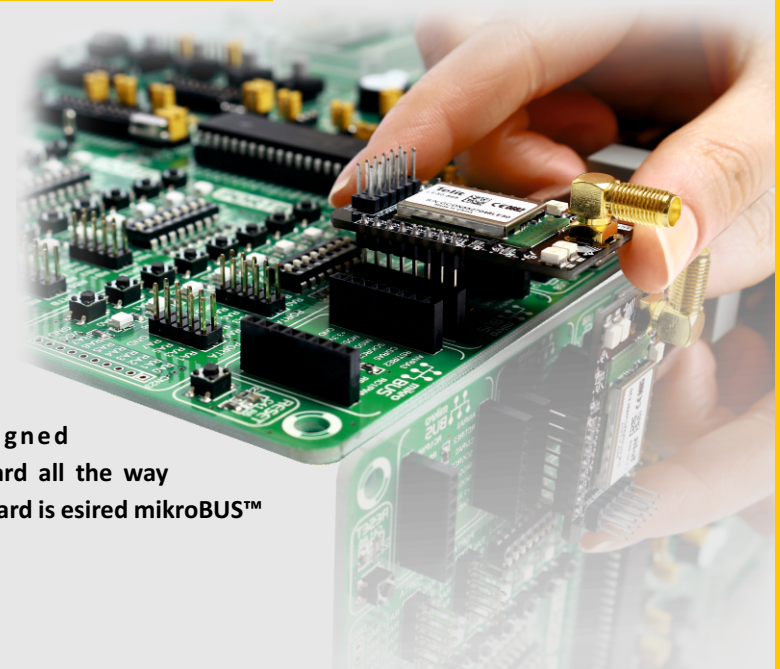


Power Supply Voltage: 3.3 V

Power Supply Current (Min) : 100 mA

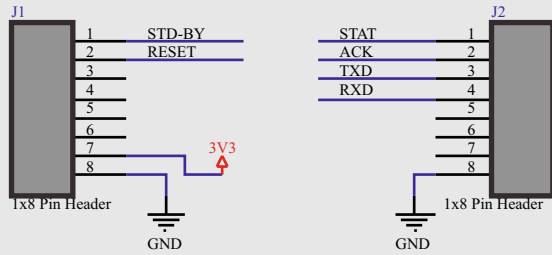
## PLUGGING THE BOARD

Once you have soldered the headers your board is ready to be placed into desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all of the pins are aligned correctly, push the board all the way into the socket. your board is esired mikroBUS™ socket.

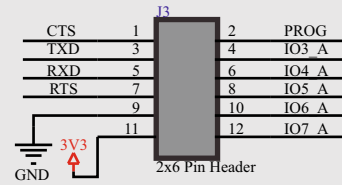


# SCHEMATIC SCHEMATIC

## mikro BUS



## AUX BUS



## ANTENNA

