

Operation Instruction

BR400 is a range extender that provides internet access to BLE enabled locks from Schlage. The main feature (principle) can be divided into 3 parts:

- Ac/Dc power supply that provides 5Vcc to the electronic board
- WiFi part, based on Marvell's 88MW300 controller, that also runs the main application
- BLE part, based on NXP's MKW40Z160 controller, that run's BLE4.1 stack from NXP

WiFi HW specification:

- single band: 802.11b/g/n
- operating frequency: 2.412 to 2.472 GHz
- 20 MHz channel bandwidth
- modulation and coding scheme: MCS 0~7
- antenna type PCB pattern antenna
- power supply: 3.3Vdc regulated

BLE HW specification:

- 2.4 GHz Bluetooth Low Energy version 4.1 compliant
- Bluetooth v4.1 Low Energy compliant 1 Mbps GFSK modulation
- Typical Receiver Sensitivity (BLE) = -91 dBm
- antenna type PCB pattern antenna
- power supply 3.3Vdc regulated

Operation temperature: 0 – 70 Celsius