

Quality Documents

Note and reference: UNI EN ISO 9001 (2008)

BLOCKS :

1. Supervisor recharge circuit
2. Li-ion battery
3. Switching power supply for energy saving
4. USB interface
5. Cpu NXP ARM7
6. Receiver RF 315MHz / RF433.92MHz / RF 868MHz / 915 MHz
7. Diagnostic cable
8. Power circuit to generate the excitation signal at 125kHz
9. Keyboard with 7 keys
10. Buzzer for various signalling
11. 128 x 64 pixel LCD display
12. Excitation coil
13. Main Power supply

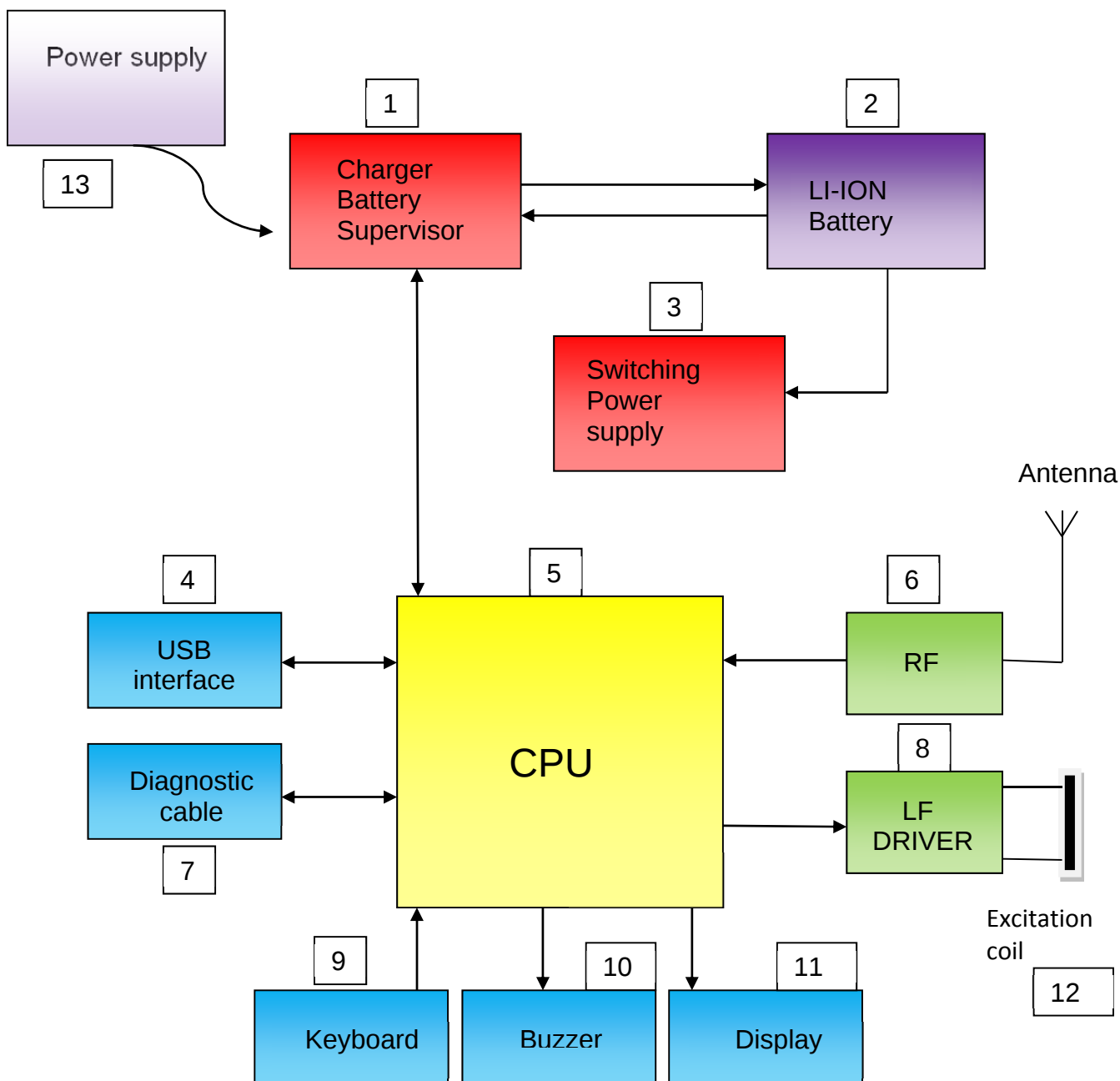
Block Diagram

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1. Supervisor recharge circuit
 - Battery management
 - Charge
 - Level indicator
 - Automatic power off
2. Li-ion battery
 - High capacity 11.1 V 800 mAh
3. Switching power supply for energy saving
 - Switching supply circuit at low power for best energy saving
4. USB interface
 - For update/data upload to PC
5. Cpu NXP ARM7
 - Cpu to control the display/LEDs, the keyboard, the buzzer, the serial connections, rf and Lf device.
6. Receiver RF 315MHz / RF433.92MHz / RF 868MHz / 915 MHz
 - Ultra low-power wireless applications operating in the 315/433/868/915 MHz ISM/SRD bands
 - Frequency bands: 300-348 MHz, 387-464 MHz and 779-928 MHz
 - High sensitivity : -116 dBm at 0.6 kBaud, 433 MHz, 1% packet error rate
-112 dBm at 1.2 kBaud, 868 MHz, 1% packet error rate
 - Excellent receiver selectivity and blocking performance
 - Programmable data rate from 0.6 to 600kbps
 - Flexible support for packet oriented systems; On-chip support for sync word detection, address check, flexible packet length, and automatic CRC handling
 - Efficient SPI interface; All registers can be programmed with one "burst" transfer Digital RSSI output
 - Programmable channel filter bandwidth, Programmable Carrier Sense (CS) indicator
 - Programmable Preamble Quality Indicator (PQI) for improved protection against false sync word detection in random noise
 - Support for automatic Clear Channel Assessment (CCA) before transmitting (for listen-before-talk systems)
 - Support for per-package Link Quality Indication (LQI) , Optional automatic whitening and dewatering of data
7. Diagnostic cable
 - to reprogram sensors, read and delete control unit errors, enable and disable TPMS, detect pressure, battery status and temperature, set winter and summer tires.
8. Power circuit to generate the excitation signal at 125kHz
 - Integrated power excitation coil used to create the magnetic field continuous or modulated wave
9. Keyboard with 7 keys
 - Easy key command
10. Buzzer for various signalling
11. 128 x 64 pixel LCD display
12. Excitation coil
 - generate a 125kHz electromagnetic field
13. Power supply
 - Universal voltage power supply

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