**Power**
- 9V battery
- 5V buck boost 2 A
- 5V 1 A
- 1V8 1 A
- 1V2 1 A
- Power up sequence
- 5V Current limiter
- 5V on/off
- Current measurement on overall current
- Voltage check on Batteries
- 5V BURN OUT

See page 6

**Ram Flash uSD**
- nSDR 1.8V 64 Mbyte 16 bit Wide
- uSD CARD 8C version up to 32 Gbyte
- I2C boot ROM for secure boot
- SPI flash 3V3 16Mbyte

See page 2 and 3

**USB Host Client**
- USB Host 1,5, 12 and 480 Mbit
- USB Host 1,5, 12 Mbit
- 5 Volt +500 mA (1.2A MAX)
- Current limiter
- Apple Autentic IC + Decoding MCU

See page 2 and 3

**Display Button GUI**
- Display, B&W, 178X128 Reflective
- 6 Buttons UP, DOWN, L, R, ACK/ON, BACK
- R and G Diodes
- Sound out

See page 2 and 3

**Input**
- 4 Input
  - Pin 1: ADC 5 V PU
  - Pin 2: I/O, PU, PD
  - Pin 3: Ground
  - Pin 4: 5 Volt +20 mA
  - Pin 5: I/O, PU, SCK(I2C), DATA(I2C)
  - Pin 6: I/O, ADC 5 V, PU, SDA(I2C), DATA(RX)
- Auto detect Sensor and Motor

See page 4

**Output**
- 4 Output
  - Pin 1: Motor Out PWM
  - Pin 2: Motor Out PWM PU to pin 6
  - Pin 3: Ground
  - Pin 4: 5 Volt +20 mA
  - Pin 5: I/O (I2C), Racho, PD, PU, ADC
  - Pin 6: I Racho, PU from N1
- Auto Detect Motor and Sensor

See page 5

**MCU**

**Buttons**
- Diodes are on the KEYPAD PCB

**Note:**
- PU = Pull Up
- PD = Pull Down
- SDA = Serial DATA
- SCK = Serial Clock
- ADC = Analog Digital Converter
- UART = Serial Peripheral Interface Bus
- SPI = Serial Peripheral Interface Bus
- PWM = Pulse Wide Modulation
- GUI = Graphical User Interface
- B&W = Black and White
- Quad = Multiple Inside Data Rate Synchronous IRAM
- S = Green
- 5V = Micro Secure Digital
- I2C = Inter-Integrated Circuit
- DIP = Serial Peripheral Interface Bus
- PCB = Printed Circuit Board
D3 When Write Control (WC) is driven High. When unconnected, the signal is internally read as VIL, and Write operations are allowed.