#### Power

9V battery 5 V buck boost 2 A> 3V3 1 A 1V8 1 A 1V2 1 A Power up sequence 5 V Current limiter 5V on/off Current measurement on overall current Voltage check on Batteries 5V BURN OUT

See page 6

# **USB** Host Client

USB Client 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

### 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), UART(TX) Pin 6: I/O, ADC 5 V, PD, SDA(I2C), UART(RX) Auto detect Sensor and Motor

See page 4

TIAM1808

# **MCU**

Buttons Diodes are on the KEYPAD PCB

## Ram Flash uSD

mDDR 1,8V 64 Mbyte 16 bit Wide uSD CARD HC version up to 32 Gbyte I2C boot ROM for secure boot SPI flash 3V3 16Mbyte

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

### 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 (OC), Tacho, PD, PU, ADC

Pin 6: I Tacho, PU from Mx1 Auto Detect Motor and Sensor

See page 5

Note:
PU = Pull Up
PD = Pull Down
SDA = Seriel DATA
SCK = Seriel Clock
ADC = Analog Digital Converter
USB = Universial Serial Bus
UART = Universal Asynchronous Receiver/Transmitter
PWM = Pulse Wide Modulation
GUI = Graphical User Interface GUI = Graphical User Interface
B&W = Black and White
mDDR = Mobile Double Data Rate synchronous DRAM mDDR = MODITE Double Data Nate Symbol R = Red
G = Green
uSD = micro Secure Digital
I2C = Inter-Integrated Circuit
SPI = Serial Peripheral Interface Bus
PCB = Printed Circuit Board

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