

DIY Wi-Fi Bot - Overall Wiring

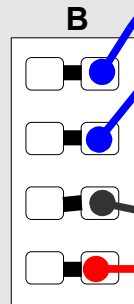
Low current wiring

High current wiring

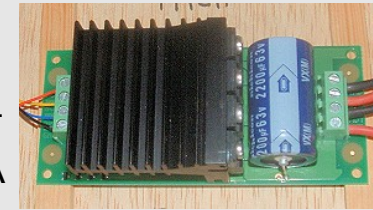
DIY Wi-Fi Bot Signal Processor Unit



I2C SCL Out
I2C SDA Out
0V to MD03's
5V to MD03's

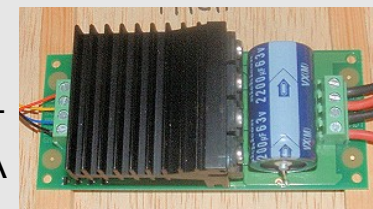


+5V
SCL
SDA
GND



MD03 - I2C Address
0xB2

+5V
SCL
SDA
GND



MD03 - I2C Address
0xB4

0V
M+
M-
+24V

0V
M+
M-
+24V



Motor 1

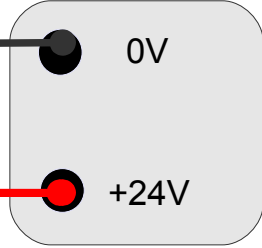
Unite MY1016
250W 24V DC PM
Motors.
Reversed polarity
connections to
Motor 1.



Fit noise suppression
capacitors as specified
in MD03 documentation

Motor 2

25 Amp
Fuse



Quick Disconnect Link
for power cut-off.
Ensure easily accessed

Master On/Off
Power Switch
to SPU

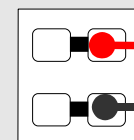
Battery Eliminator
Circuit, 5V Output
Min 1 Amp Rating

5V to Battery-In
on Board

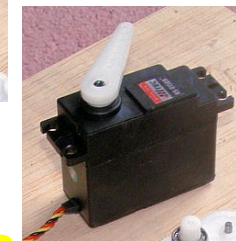


BEC

With the MD03's in place
the BEC ground does not
need to be connected



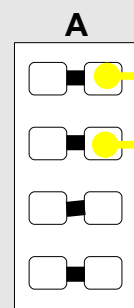
5V to Servos
0V to Servos



RC Style Servos for
Camera Pan & Tilt

Data in to SPU from either on-board
laptop / notebook PC via download cable
to the experimenter board
or from RS232 RF Telemetry Module
(wireless serial link).

Pan Servo
Tilt Servo



Pulse output to Servos

24V Battery Pack
Use 2 x 12V Batteries in series.
Power supplies for Laptop & other
equipment can be taken from one
of the 12V batteries via car type
chargers/PSU's