I2C SERVO TESTER

UPDI PROGRAMMING

CONN_01X03
+3.3V
GND

U1 AP2210-3.3
VIN VOUT
GND
+3.3V
C1 10uF
C2 10uF
GND GND GND

ATTINYuP
U2
ATTINY416

+3.3V

ADD order
favors layout

ADD1 1 PA2   PA1 20 ADD2
ADD0 2 PA3 PA0/RST/UPDI 19
      3 GND   PC3 18 RED
      4 VDD   PC2 17 GREEN
ADD6 5 PA4   PC1 16 PROG
ADD5 6 PA5   PC0 15
ADD4 7 PA6   PB0 14
ADD3 8 PA7   PB1 13
      9 PB5 PB2/TOSC2 12
     10 PB4 PB3/TOSC1 11

GND

+3.3V
2.2K R3   R4 2.2K

POW J2
     5-9V
1 SDA
2 SCL   PH Connector
3
4 GND
GND

33 Ohm protection R1
33 Ohm protection R2

PTV-09A POT
Power
+3.3V
Position
RV1 POT   RV2 POT
C3 10uF
GND

PAD 21
GND

POW J4
CONN_01X03
Regular servo
GND

POW
J5
CONN_01X02
User
Aux

+9V
POW
SCHOTKY
D1 D
CONN_01X02
J1
GND

S1
1B 1A ADD0
2B 2A ADD1
3B 3A ADD2
4B 4A ADD3
5B 5A ADD4
6B 6A ADD5
7B 7A ADD6
GND
DipSwitch_7pos

Program address on
Dip Switch

PROG
U3
Pushbutton

RED   GREEN
R5 2.2K   R6 2.2K
D2 LED   D3 LED
GND