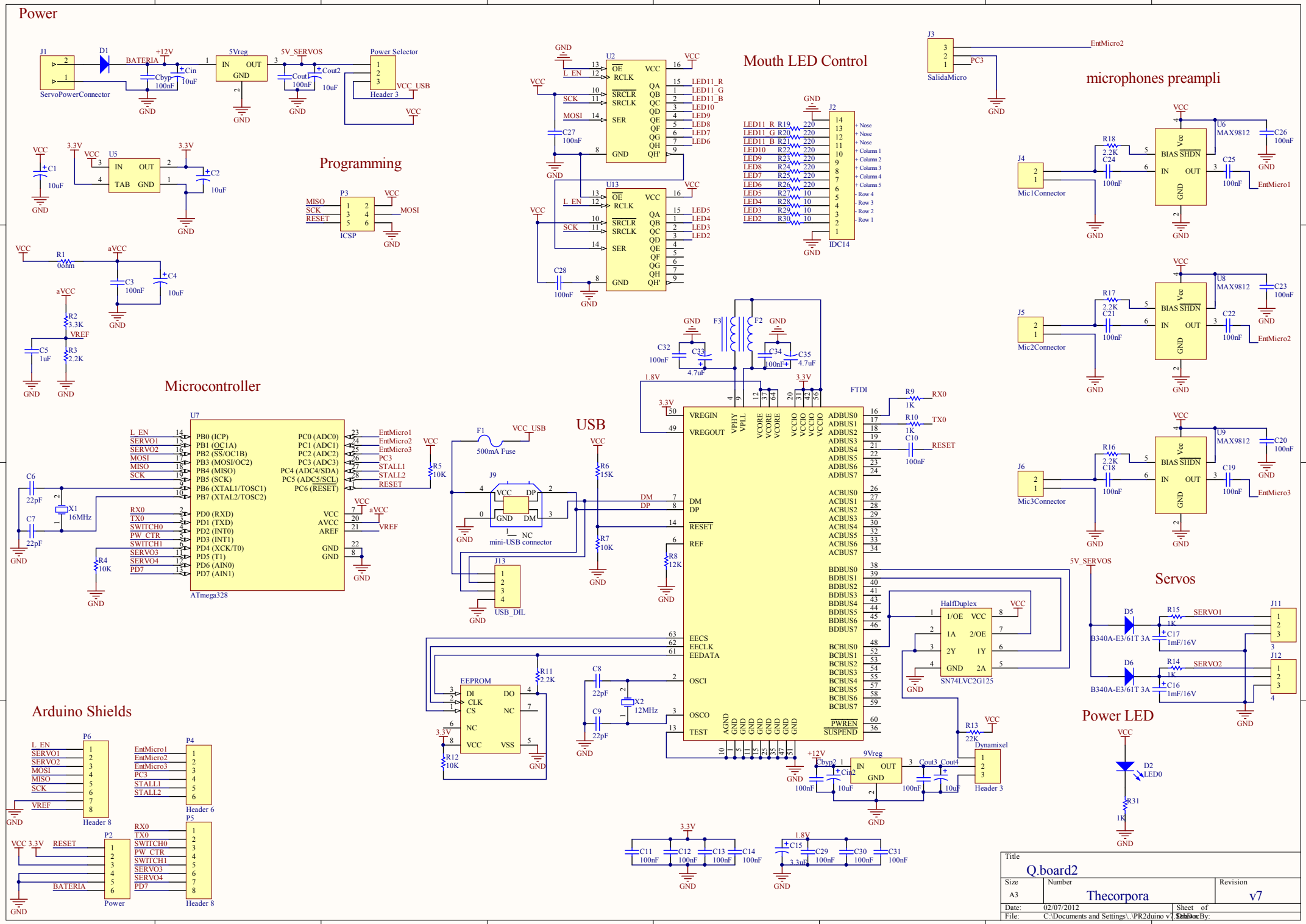
Power
J1
ServoPowerConnector
D1
BATERIA
+12V
Cbyp 100nF
Cin 10uF
5Vreg
IN OUT GND
5V_SERVOS
Cout1 100nF
Cout2 10uF
Power Selector
Header 3
VCC_USB
VCC
GND
U5
IN OUT TAB GND
3.3V
C1 10uF
C2 10uF
Programming
P3
ICSP
MISO
SCK
RESET
MOSI
R1 0ohm
aVCC
C3 100nF
C4 10uF
R2 3.3K
VREF
C5 1uF
R3 2.2K
Microcontroller
U7
ATmega328
L_EN
SERVO1
SERVO2
MOSI
MISO
SCK
RX0
TX0
SWITCH0
PW_CTR
SWITCH1
SERVO3
SERVO4
PD7
PB0 (ICP)
PB1 (OC1A)
PB2 (SS/OC1B)
PB3 (MOSI/OC2)
PB4 (MISO)
PB5 (SCK)
PB6 (XTAL1/TOSC1)
PB7 (XTAL2/TOSC2)
PD0 (RXD)
PD1 (TXD)
PD2 (INT0)
PD3 (INT1)
PD4 (XCK/T0)
PD5 (T1)
PD6 (AIN0)
PD7 (AIN1)
PC0 (ADC0)
PC1 (ADC1)
PC2 (ADC2)
PC3 (ADC3)
PC4 (ADC4/SDA)
PC5 (ADC5/SCL)
PC6 (RESET)
EntMicro1
EntMicro2
EntMicro3
PC3
STALL1
STALL2
RESET
AVCC
AREF
C6 22pF
C7 22pF
X1 16MHz
R4 10K
R5 10K
Arduino Shields
P6
Header 8
P4
Header 6
P2
Power
P5
Header 8
Mouth LED Control
U2
U13
OE
RCLK
SRCLR
SRCLK
SER
QA QB QC QD QE QF QG QH QH'
LED11_R
LED11_G
LED11_B
LED10
LED9
LED8
LED7
LED6
LED5
LED4
LED3
LED2
C27 100nF
C28 100nF
J2
IDC14
R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30
Nose
Column 1
Column 2
Column 3
Column 4
Column 5
Row 4
Row 3
Row 2
Row 1
USB
F1 500mA Fuse
VCC_USB
J9
mini-USB connector
J13
USB_DIL
R6 15K
R7 10K
R8 12K
F3
F2
C32 100nF
C33 4.7uF
C34 100nF
C35 4.7uF
1.8V
3.3V
FTDI
VREGIN
VREGOUT
DM
DP
RESET
REF
EECS
EECLK
EEDATA
OSCI
OSCO
TEST
AGND
PWREN
SUSPEND
ADBUS0
ADBUS1
ADBUS2
ADBUS3
ADBUS4
ADBUS5
ADBUS6
ADBUS7
ACBUS0
ACBUS1
ACBUS2
ACBUS3
ACBUS4
ACBUS5
ACBUS6
ACBUS7
BDBUS0
BDBUS1
BDBUS2
BDBUS3
BDBUS4
BDBUS5
BDBUS6
BDBUS7
BCBUS0
BCBUS1
BCBUS2
BCBUS3
BCBUS4
BCBUS5
BCBUS6
BCBUS7
R9 1K RX0
R10 1K TX0
C10 100nF RESET
EEPROM
DI CLK CS NC VCC DO NC VSS
R11 2.2K
R12 10K
C8 22pF
C9 22pF
X2 12MHz
HalfDuplex
SN74LVC2G125
1/OE 1A 2Y GND VCC 2/OE 1Y 2A
R13 22K
Dynamixel
Header 3
9Vreg
Cbyp2 100nF
Cin2 10uF
Cout3 100nF
Cout4 10uF
C11 100nF
C12 100nF
C13 100nF
C14 100nF
C15 3.3uF
C29 100nF
C30 100nF
C31 100nF
J3
SalidaMicro
EntMicro2
PC3
microphones preampli
J4
Mic1Connector
J5
Mic2Connector
J6
Mic3Connector
R18 2.2K
R17 2.2K
R16 2.2K
C24 100nF
C21 100nF
C18 100nF
U6 MAX9812
U8 MAX9812
U9 MAX9812
BIAS SHDN IN OUT GND Vcc
C25 100nF
C22 100nF
C19 100nF
C26 100nF
C23 100nF
C20 100nF
EntMicro1
EntMicro2
EntMicro3
Servos
5V_SERVOS
D5
D6
B340A-E3/61T 3A
R15 1K SERVO1
R14 1K SERVO2
C17 1mF/16V
C16 1mF/16V
J11
J12
Power LED
D2 LED0
R31 1K
Title
Q.board2
Size
A3
Number
Thecorpora
Revision
v7
Date: 02/07/2012
File: C:\Documents and Settings\..\PR2duino v7.SchDoc
Sheet of
Drawn By: