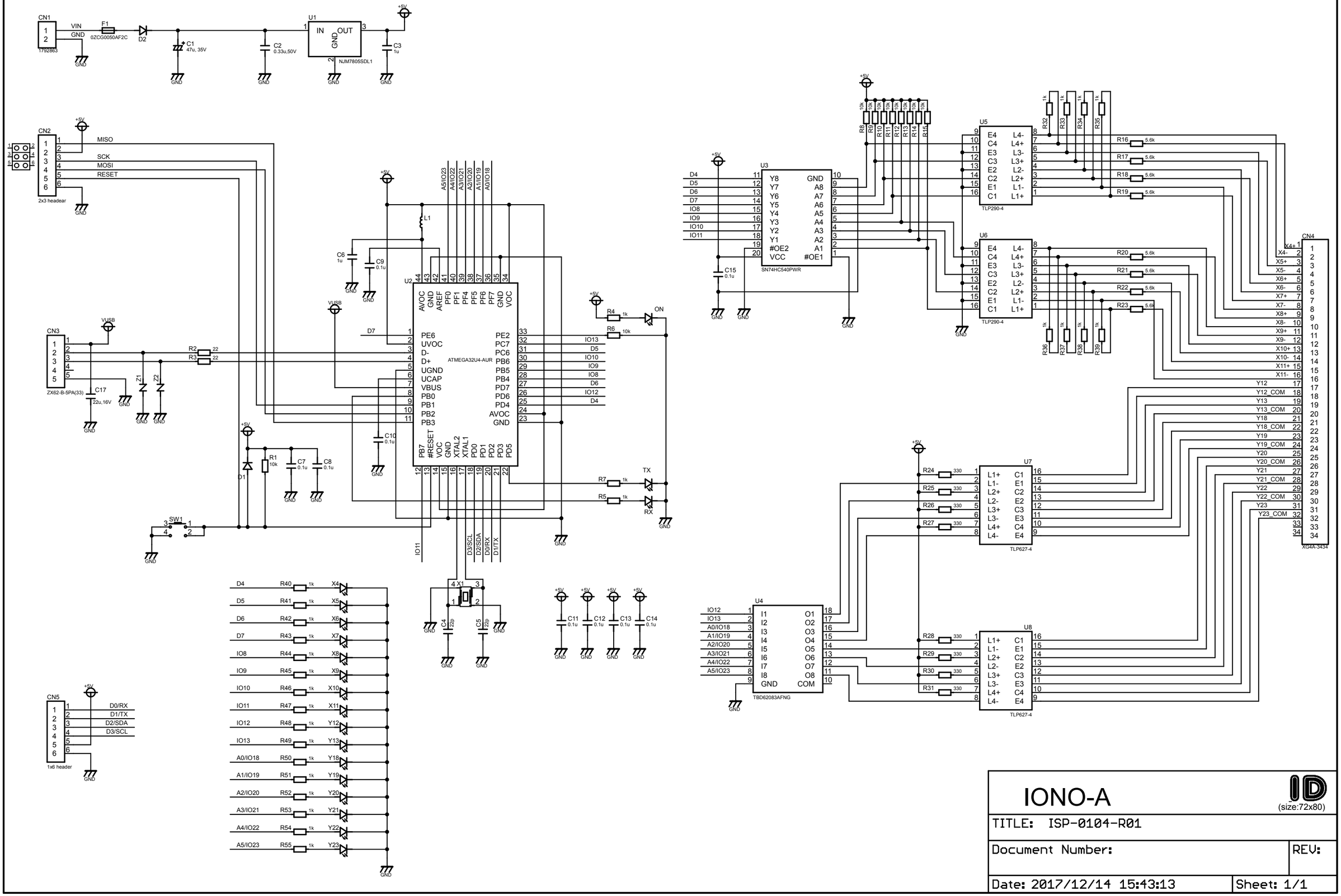
CN1
VIN
GND
F1
0ZCG0050AF2C
D2
C1
47u, 35V
C2
0.33u,50V
U1
IN
GND
OUT
NJM7805SDL1
C3
1u
+5V
CN2
MISO
SCK
MOSI
RESET
2x3 headear
L1
C6
1u
C9
0.1u
U2
ATMEGA32U4-AUR
AVCC
GND
AREF
PF0
PF1
PF4
PF5
PF6
PF7
PE6
UVOC
D-
D+
UGND
UCAP
VBUS
PB0
PB1
PB2
PB3
PE2
PC7
PC6
PB6
PB5
PB4
PD7
PD6
PD4
AVCC
GND
PB7
#RESET
VOC
XTAL2
XTAL1
PD0
PD1
PD2
PD3
PD5
A5/IO23
A4/IO22
A3/IO21
A2/IO20
A1/IO19
A0/IO18
IO11
D3/SCL
D2/SDA
D0/RX
D1/TX
VUSB
CN3
ZX62-B-5PA(33)
R2
R3
22
C17
22u,16V
Z1
Z2
C10
0.1u
D1
R1
10k
C7
0.1u
C8
0.1u
SW1
R4
1k
ON
R6
10k
IO13
D5
IO10
IO9
IO8
D6
IO12
D4
R7
1k
TX
R5
1k
RX
X1
C4
22p
C5
22p
C11
0.1u
C12
0.1u
C13
0.1u
C14
0.1u
D4
D5
D6
D7
IO8
IO9
IO10
IO11
IO12
IO13
A0/IO18
A1/IO19
A2/IO20
A3/IO21
A4/IO22
A5/IO23
R40
R41
R42
R43
R44
R45
R46
R47
R48
R49
R50
R51
R52
R53
R54
R55
1k
X4
X5
X6
X7
X8
X9
X10
X11
Y12
Y13
Y18
Y19
Y20
Y21
Y22
Y23
CN5
1x6 header
D0/RX
D1/TX
D2/SDA
D3/SCL
U3
SN74HC540PWR
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
#OE2
VCC
GND
A8
A7
A6
A5
A4
A3
A2
A1
#OE1
C15
0.1u
R8
R9
R10
R11
R12
R13
R14
R15
10k
U5
U6
TLP290-4
E4
C4
E3
C3
E2
C2
E1
C1
L4-
L4+
L3-
L3+
L2-
L2+
L1-
L1+
R32
R33
R34
R35
1k
R16
R17
R18
R19
R20
R21
R22
R23
5.6k
R36
R37
R38
R39
CN4
X4+
X4-
X5+
X5-
X6+
X6-
X7+
X7-
X8+
X8-
X9+
X9-
X10+
X10-
X11+
X11-
Y12
Y12_COM
Y13
Y13_COM
Y18
Y18_COM
Y19
Y19_COM
Y20
Y20_COM
Y21
Y21_COM
Y22
Y22_COM
Y23
Y23_COM
XG4A-3434
U4
TBD62083AFNG
I1
I2
I3
I4
I5
I6
I7
I8
O1
O2
O3
O4
O5
O6
O7
O8
COM
U7
U8
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R24
R25
R26
R27
R28
R29
R30
R31
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