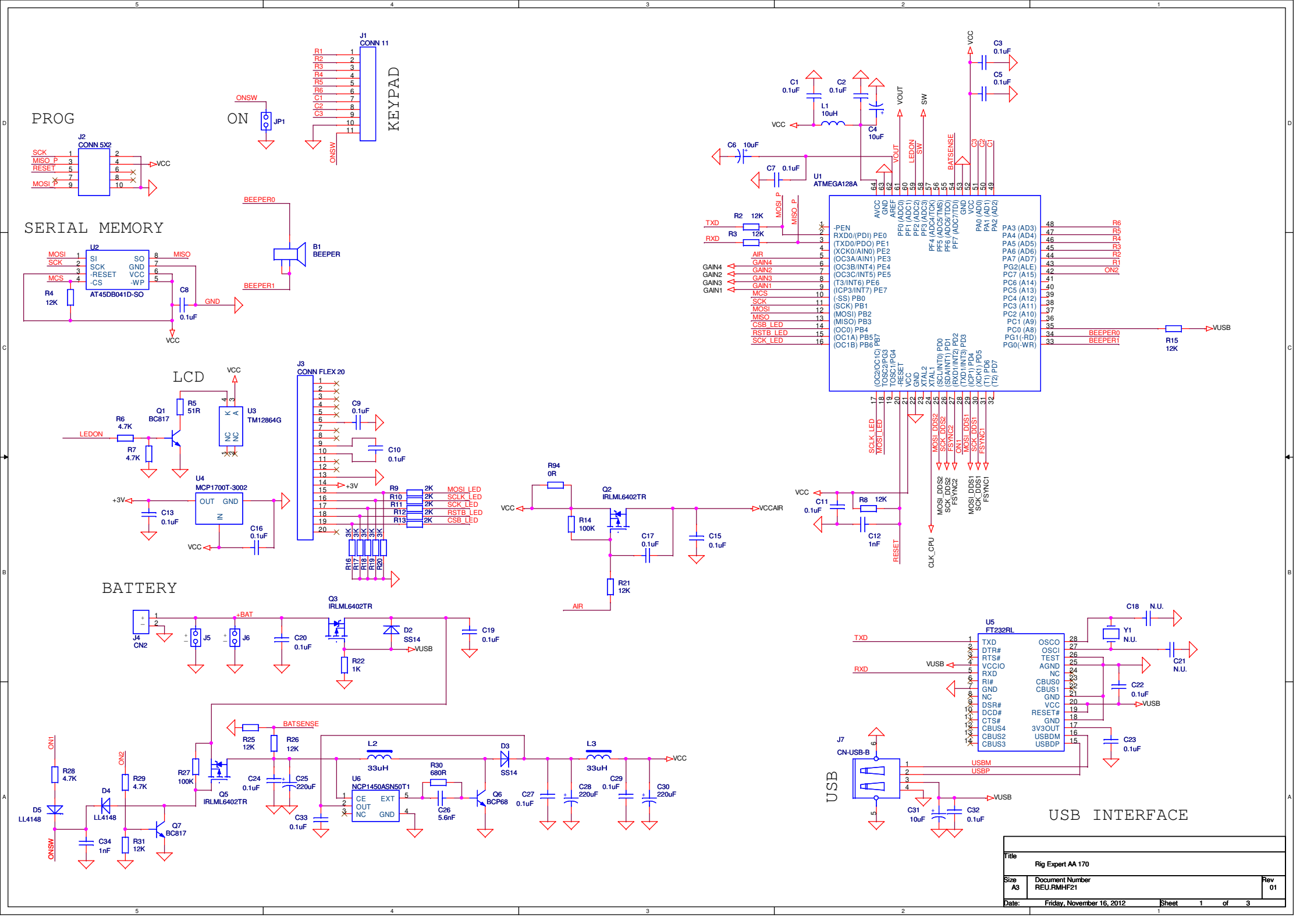
PROG
J2
CONN 5X2
SCK
MISO_P
RESET
MOSI_P
VCC
ON
JP1
ONSW
J1
CONN 11
KEYPAD
R1
R2
R3
R4
R5
R6
C1
C2
C3
SERIAL MEMORY
U2
AT45DB041D-SO
SI
SCK
-RESET
-CS
SO
GND
VCC
-WP
MOSI
MISO
MCS
R4
12K
C8
0.1uF
GND
BEEPER0
BEEPER1
B1
BEEPER
LCD
VCC
Q1
BC817
R5
51R
R6
4.7K
R7
4.7K
LEDON
U3
TM12864G
U4
MCP1700T-3002
OUT
GND
IN
+3V
C13
0.1uF
C16
0.1uF
J3
CONN FLEX 20
C9
0.1uF
C10
0.1uF
R9
R10
R11
R12
R13
MOSI_LED
SCLK_LED
SCK_LED
RSTB_LED
CSB_LED
R16
R17
R18
R19
R20
BATTERY
J4
CN2
+BAT
J5
J6
C20
0.1uF
Q3
IRLML6402TR
D2
SS14
VUSB
C19
0.1uF
R22
1K
R94
0R
Q2
IRLML6402TR
R14
100K
C17
0.1uF
C15
0.1uF
R21
12K
AIR
VCCAIR
C1
0.1uF
C2
0.1uF
L1
10uH
C4
10uF
C6
10uF
C7
0.1uF
VOUT
SW
LEDON
BATSENSE
C3
0.1uF
C5
0.1uF
U1
ATMEGA128A
TXD
RXD
R2
12K
R3
12K
MOSI_P
MISO_P
GAIN4
GAIN2
GAIN3
GAIN1
MCS
SCK
MOSI
MISO
CSB_LED
RSTB_LED
SCK_LED
SCLK_LED
MOSI_LED
R6
R5
R4
R3
R2
R1
ON2
R15
12K
C11
0.1uF
R8
12K
C12
1nF
RESET
CLK_CPU
MOSI_DDS2
SCK_DDS2
FSYNC2
ON1
MOSI_DDS1
SCK_DDS1
FSYNC1
BATSENSE
R25
12K
R26
12K
L2
33uH
L3
33uH
D3
SS14
R30
680R
Q6
BCP68
C26
5.6nF
U6
NCP1450ASN50T1
CE
OUT
NC
EXT
GND
C24
0.1uF
C25
220uF
C33
0.1uF
C27
0.1uF
C28
220uF
C29
0.1uF
C30
220uF
R27
100K
Q5
IRLML6402TR
R28
4.7K
R29
4.7K
D4
LL4148
D5
LL4148
Q7
BC817
R31
12K
C34
1nF
ON1
ON2
ONSW
U5
FT232RL
TXD
DTR#
RTS#
VCCIO
RXD
RI#
GND
NC
DSR#
DCD#
CTS#
CBUS4
CBUS2
CBUS3
OSCO
OSCI
TEST
AGND
NC
CBUS0
CBUS1
GND
VCC
RESET#
GND
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USBDP
C18
N.U.
Y1
N.U.
C21
N.U.
C22
0.1uF
C23
0.1uF
J7
CN-USB-B
USBM
USBP
C31
10uF
C32
0.1uF
USB
USB INTERFACE
Title
Rig Expert AA 170
Size
A3
Document Number
REU.RMHF21
Rev
01
Date:
Friday, November 16, 2012
Sheet
1
of
3