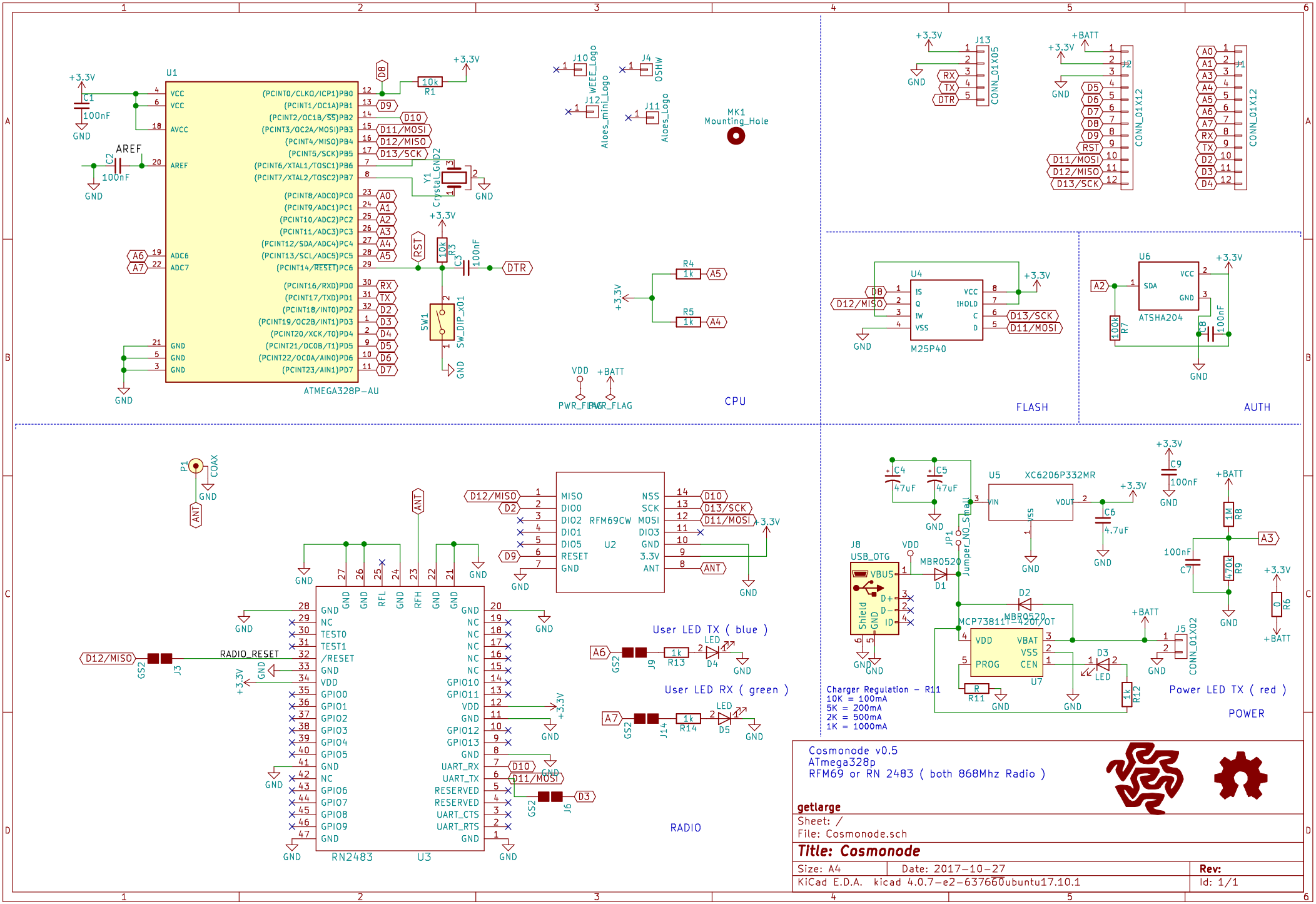
U1
ATMEGA328P-AU
VCC
AVCC
AREF
ADC6
ADC7
GND
(PCINT0/CLKO/ICP1)PB0
(PCINT1/OC1A)PB1
(PCINT2/OC1B/SS)PB2
(PCINT3/OC2A/MOSI)PB3
(PCINT4/MISO)PB4
(PCINT5/SCK)PB5
(PCINT6/XTAL1/TOSC1)PB6
(PCINT7/XTAL2/TOSC2)PB7
(PCINT8/ADC0)PC0
(PCINT9/ADC1)PC1
(PCINT10/ADC2)PC2
(PCINT11/ADC3)PC3
(PCINT12/SDA/ADC4)PC4
(PCINT13/SCL/ADC5)PC5
(PCINT14/RESET)PC6
(PCINT16/RXD)PD0
(PCINT17/TXD)PD1
(PCINT18/INT0)PD2
(PCINT19/OC2B/INT1)PD3
(PCINT20/XCK/T0)PD4
(PCINT21/OC0B/T1)PD5
(PCINT22/OC0A/AIN0)PD6
(PCINT23/AIN1)PD7
C1 100nF
C2 100nF
R1 10k
R3 10k
C3 100nF
Y1 Crystal_GND2
SW1 SW_DIP_x01
DTR
RST
J10 WEEE_Logo
J4 OSHW
J12 Aloes_mini_Logo
J11 Aloes_Logo
MK1 Mounting_Hole
R4 1k
R5 1k
PWR_FLAG
CPU
J13 CONN_01X05
J2 CONN_01X12
J1 CONN_01X12
U4 M25P40
FLASH
U6 ATSHA204
AUTH
P1 COAX
ANT
U2 RFM69CW
MISO
DIO0
DIO2
DIO1
DIO5
RESET
GND
NSS
SCK
MOSI
DIO3
3.3V
U3 RN2483
RADIO_RESET
J3
J9
J14
J6
User LED TX (blue)
User LED RX (green)
LED
R13 1k
R14 1k
D4
D5
RADIO
C4 47uF
C5 47uF
U5 XC6206P332MR
C6 4.7uF
C9 100nF
J8 USB_OTG
MBR0520
D1
D2
JP1 Jumper_NO_Small
U7 MCP73811T-420I/OT
D3
R11
R12 1k
J5 CONN_01X02
R8 1M
R9 470k
C7 100nF
R6 0
Charger Regulation - R11
10K = 100mA
5K = 200mA
2K = 500mA
1K = 1000mA
Power LED TX (red)
POWER
Cosmonode v0.5
ATmega328p
RFM69 or RN 2483 (both 868Mhz Radio)
getlarge
Sheet: /
File: Cosmonode.sch
Title: Cosmonode
Size: A4
Date: 2017-10-27
Rev:
KiCad E.D.A. kicad 4.0.7-e2-637660ubuntu17.10.1
Id: 1/1