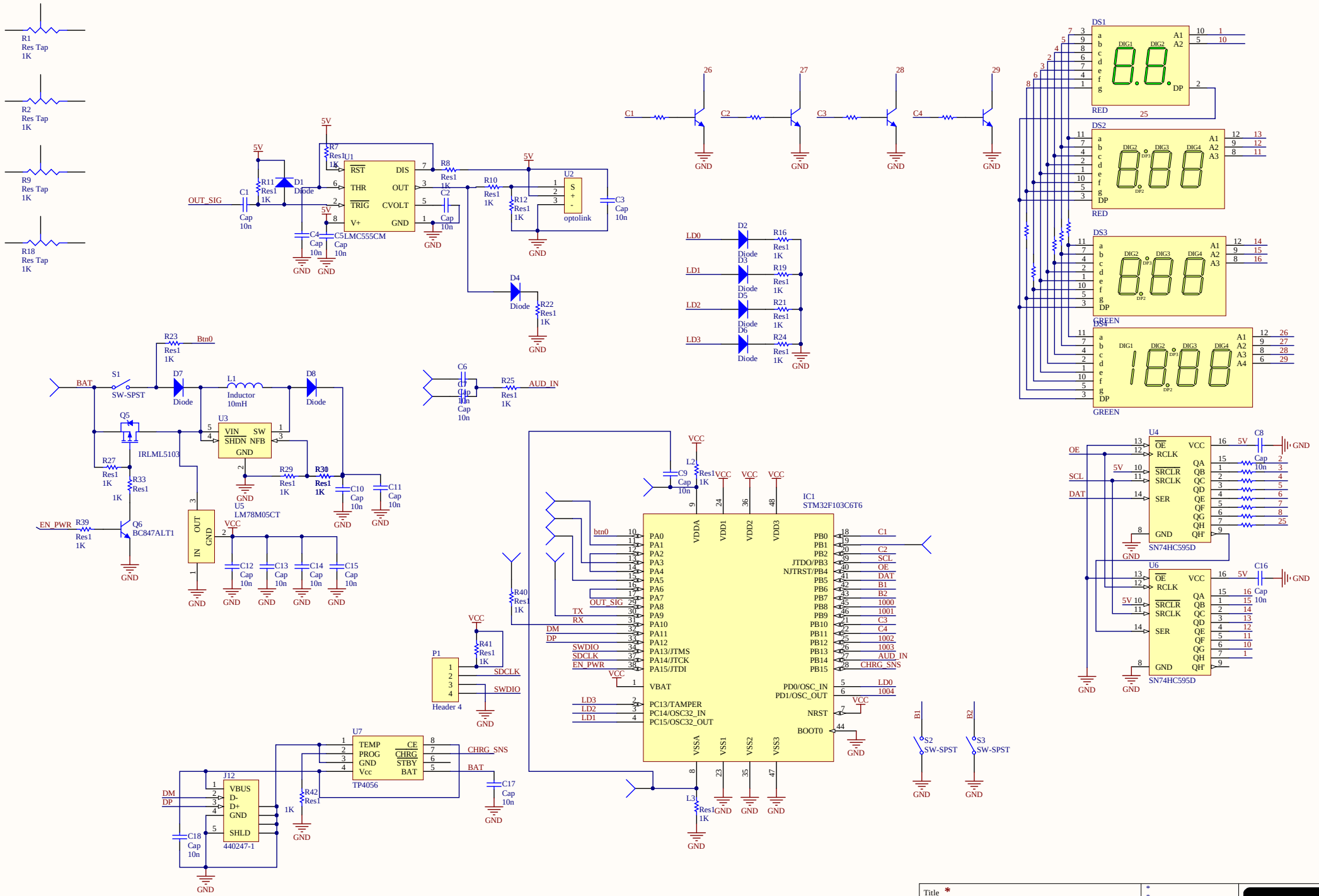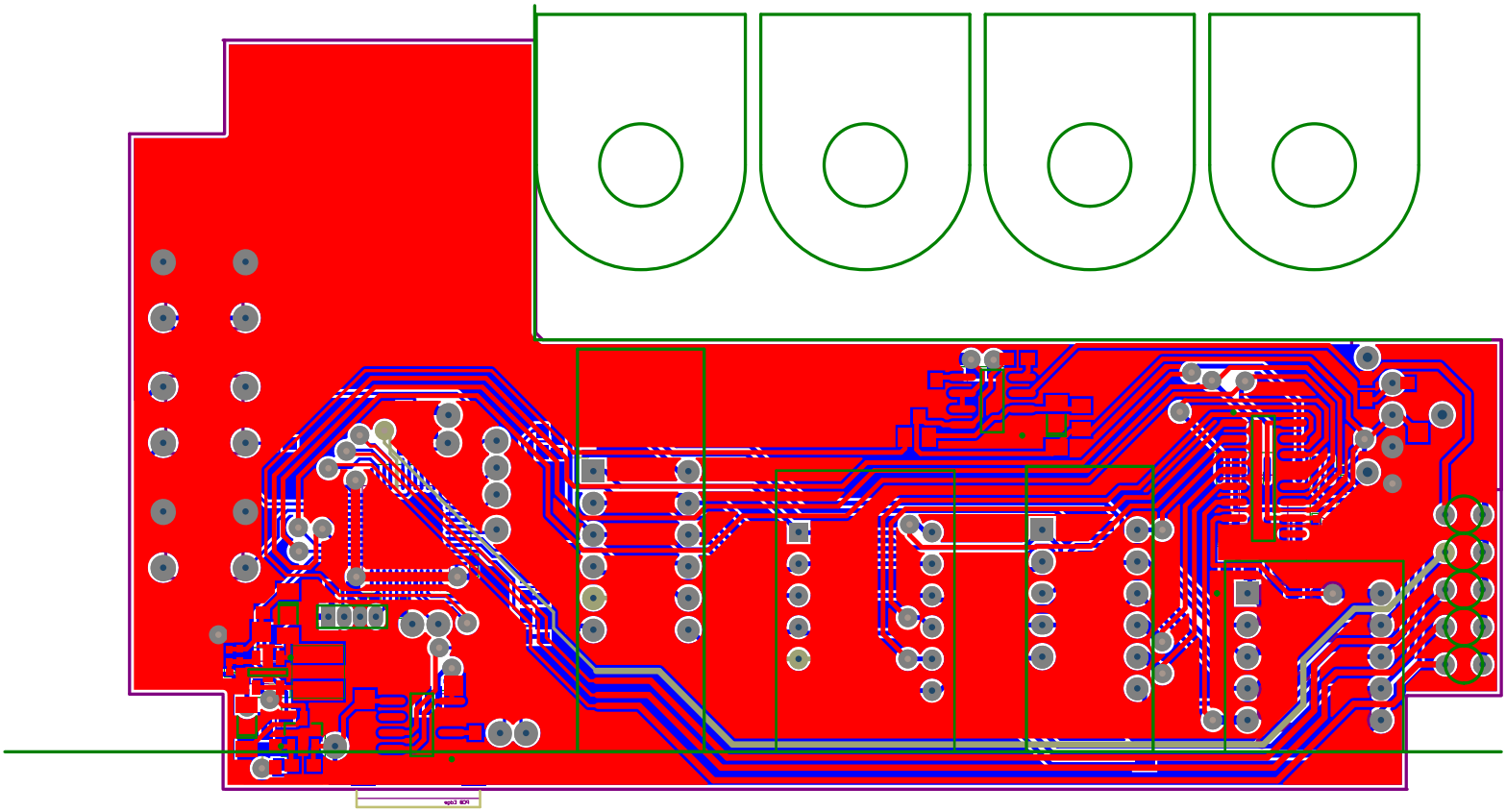
R1 Res Tap 1K
R2 Res Tap 1K
R9 Res Tap 1K
R18 Res Tap 1K
U1 LMC555CM
RST DIS THR OUT TRIG CVOLT V+ GND
OUT_SIG
C1 Cap 10n
R11 Res1 1K
D1 Diode
R7 Res1 1K
R8 Res1 1K
R10 Res1 1K
R12 Res1 1K
C2 Cap 10n
C3 Cap 10n
C4 Cap 10n
C5 Cap 10n
U2 optolink
D4 Diode
R22 Res1 1K
5V
GND
C1 C2 C3 C4
26 27 28 29
LD0 LD1 LD2 LD3
D2 D3 D5 D6 Diode
R16 R19 R21 R24 Res1 1K
DS1 DS2 DS3 DS4
DIG1 DIG2 DIG3 DIG4
DP
RED
GREEN
R23 Res1 1K
Btn0
BAT
S1 SW-SPST
D7 Diode
L1 Inductor 10mH
D8 Diode
Q5 IRLML5103
U3 VIN SW SHDN NFB GND
R27 Res1 1K
R33 Res1 1K
R29 Res1 1K
R30 Res1 1K
C10 Cap 10n
C11 Cap 10n
U5 LM78M05CT
IN OUT GND
EN_PWR
R39 Res1 1K
Q6 BC847ALT1
C12 C13 C14 C15 Cap 10n
VCC
C6 C7 Cap 10n
R25 Res1 1K
AUD_IN
IC1 STM32F103C6T6
VDDA VDD1 VDD2 VDD3
VSSA VSS1 VSS2 VSS3
PA0 PA1 PA2 PA3 PA4 PA5 PA6 PA7 PA8 PA9 PA10 PA11 PA12 PA13/JTMS PA14/JTCK PA15/JTDI
VBAT
PC13/TAMPER PC14/OSC32_IN PC15/OSC32_OUT
PB0 PB1 PB2 JTDO/PB3 NJTRST/PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14 PB15
PD0/OSC_IN PD1/OSC_OUT
NRST
BOOT0
btn0 TX RX DM DP SWDIO SDCLK EN_PWR LD3 LD2 LD1
C1 SCL OE DAT B1 1000 C3 C4 1002 1003 AUD_IN CHRG_SNS LD0 1004
L2 Res1 1K
C9 Cap 10n
L3 Res1 1K
R40 Res1 1K
R41 Res1 1K
P1 Header 4
SDCLK SWDIO
B1 B2
S2 S3 SW-SPST
U4 U6 SN74HC595D
OE RCLK SRCLR SRCLK SER GND
QA QB QC QD QE QF QG QH QH'
C8 C16 Cap 10n
U7 TP4056
TEMP PROG GND Vcc CE CHRG STBY BAT
CHRG_SNS
C17 Cap 10n
J12 440247-1
VBUS D- D+ GND SHLD
R42 Res1 1K
C18 Cap 10n
Title *
Size: A3
Number:*
Revision:*
Date: 19.03.2017
Time: 22:31:56
Sheet * of *
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Altium