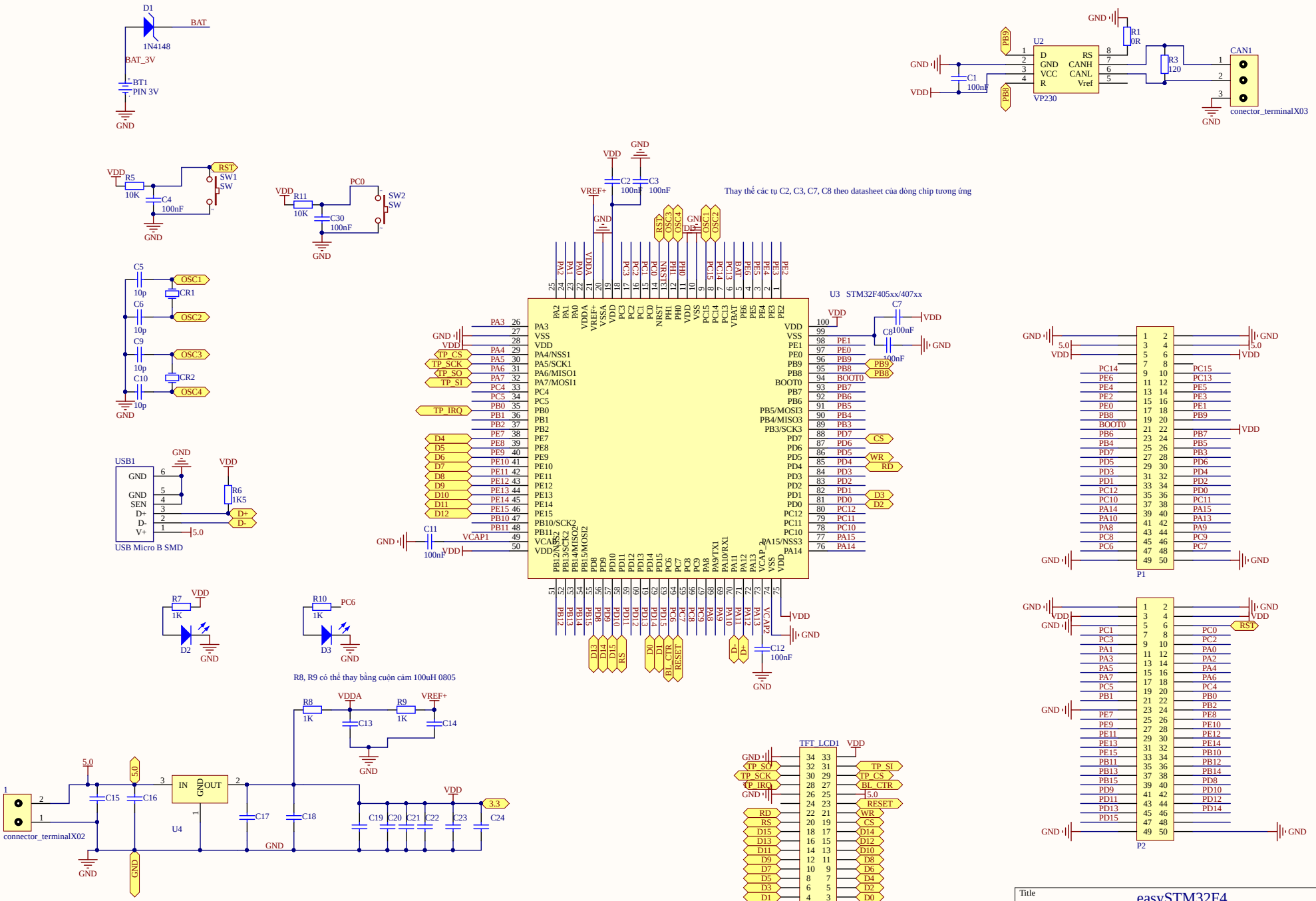
D1
1N4148
BAT
BAT_3V
BT1
PIN 3V
GND
VDD
R5
10K
C4
100nF
RST
SW1
SW
R11
10K
C30
100nF
PC0
SW2
SW
C5
10p
C6
10p
C9
10p
C10
10p
CR1
CR2
OSC1
OSC2
OSC3
OSC4
USB1
USB Micro B SMD
R6
1K5
D+
D-
5.0
C11
100nF
VCAP1
R7
1K
D2
R10
1K
D3
PC6
R8, R9 có thể thay bằng cuộn cảm 100uH 0805
R8
1K
R9
1K
VDDA
VREF+
C13
C14
connector_terminalX02
U4
IN
OUT
C15
C16
C17
C18
C19
C20
C21
C22
C23
C24
3.3
C2
100nF
C3
100nF
VREF+
Thay thế các tụ C2, C3, C7, C8 theo datasheet của dòng chip tương ứng
U3 STM32F405xx/407xx
C7
100nF
C8
100nF
C12
100nF
TP_CS
TP_SCK
TP_SO
TP_SI
TP_IRQ
D4
D5
D6
D7
D8
D9
D10
D11
D12
CS
WR
RD
D3
D2
D13
D14
D15
RS
D0
D1
BL_CTR
RESET
D-
D+
U2
VP230
D
GND
VCC
R
RS
CANH
CANL
Vref
R1
0R
R3
120
C1
100nF
CAN1
conector_terminalX03
P1
P2
TFT_LCD1
J17x2
Title
easySTM32F4
Size
A3
Number
01/01
Revision
v2.01
Date:
25/08/2016
Sheet of
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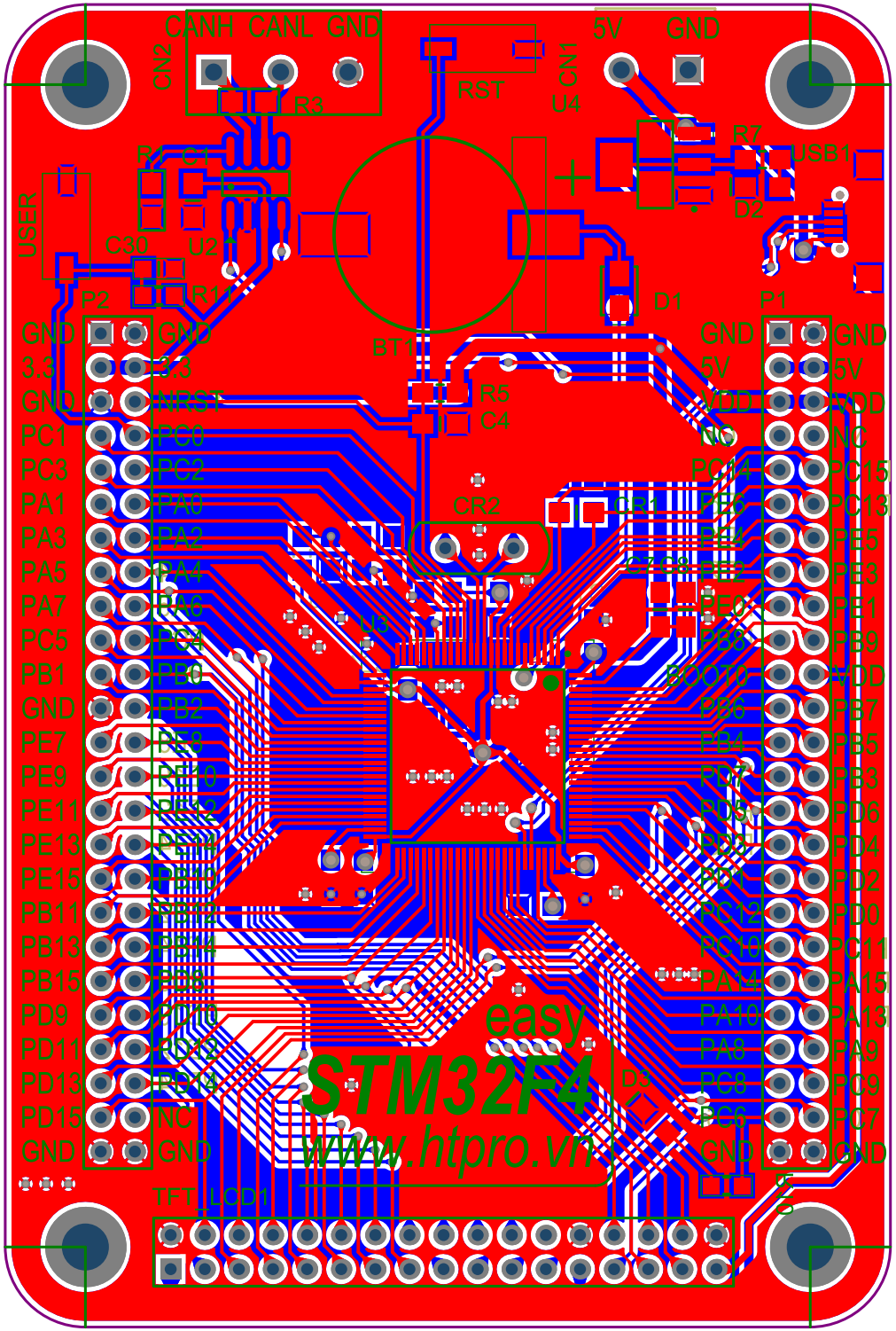
Drawn By:
Hein_techno


CANH CANL GND
CN2
R3
RST
CN1
5V GND
U4
R7
USB1
D2
R2 C1
USER
C30
U2
R11
D1
P2
P1
BT1
R5
C4
CR2
U6
easy
STM32F4
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TFT_LCD1