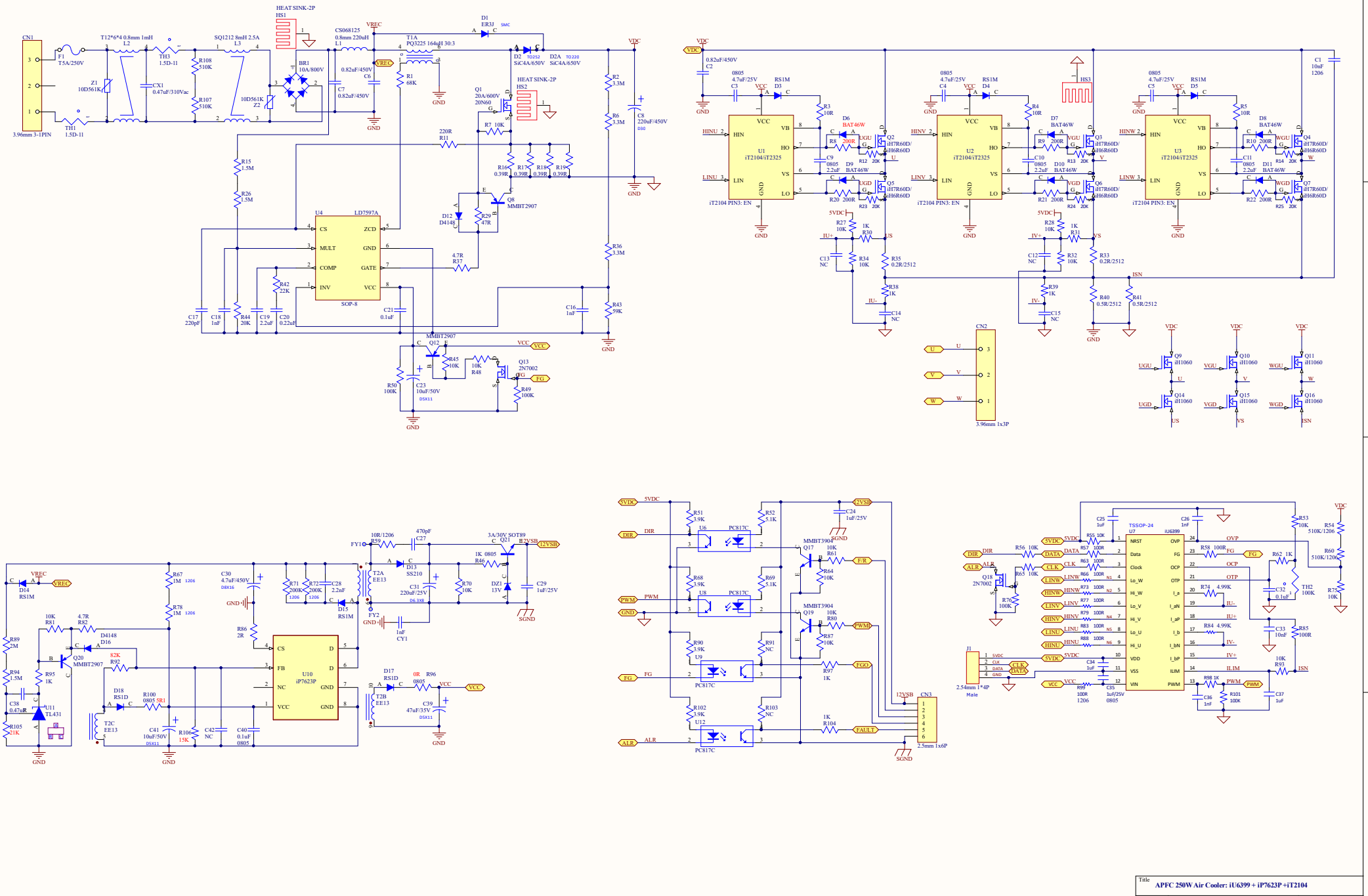

CN1
F1 T5A/250V
TH1 1.5D-11
TH3 1.5D-11
T12*6*4 0.8mm 1mH L2
SQ1212 8mH 2.5A L3
CX1 0.47uF/310Vac
Z1 10D561K
Z2 10D561K
R108 510K
R107 510K
BR1 10A/800V
HEAT SINK-2P HS1
CS068125 0.8mm 220uH L1
0.82uF/450V C6
C7 0.82uF/450V
T1A PQ3225 164uH 30:3
D1 ER3J SMC
D2 TO252 SiC4A/650V
D2A TO220 SiC4A/650V
HEAT SINK-2P HS2
Q1 20A/600V 20N60
R1 68K
R7 10K
220R R11
R2 3.3M
R6 3.3M
R36 3.3M
C8 220uF/450V D30
R15 1.5M
R26 1.5M
R16 0.39R
R17 0.39R
R18 0.39R
R19 0.39R
Q8 MMBT2907
D12 D4148
R29 47R
U4 LD7597A
CS
MULT
COMP
INV
ZCD
GND
GATE
VCC
SOP-8
R42 22K
R37 4.7R
C17 220pF
C18 1nF
R44 20K
C19 2.2uF
C20 0.22uF
C21 0.1uF
C16 1nF
R43 59K
MMBT2907 Q12
R45 10K
R48 10K
Q13 2N7002
R49 100K
R50 100K
C23 10uF/50V DSX11
VDC
VREC
VCC
FG
GND
0.82uF/450V C2
0805 4.7uF/25V C3
RS1M D3
0805 4.7uF/25V C4
RS1M D4
0805 4.7uF/25V C5
RS1M D5
C1 10nF 1206
HS3
U1 iT2104/iT2325
U2 iT2104/iT2325
U3 iT2104/iT2325
HIN
LIN
HINU
LINU
HINW
LINW
VCC
VB
HO
VS
LO
iT2104 PIN3: EN
D6 BAT46W
D7 BAT46W
D8 BAT46W
D9 BAT46W
D10 BAT46W
D11 BAT46W
R3 10R
R4 10R
R5 10R
R8 200R
R9 200R
R10 200R
R12 20K
R13 20K
R14 20K
R20 200R
R21 200R
R22 200R
R23 20K
R24 20K
R25 20K
C9 0805 2.2uF
C10 0805 2.2uF
C11 0805 2.2uF
Q2 iH7R60D/iH6R60D
Q3 iH7R60D/iH6R60D
Q4 iH7R60D/iH6R60D
Q5 iH7R60D/iH6R60D
Q6 iH7R60D/iH6R60D
Q7 iH7R60D/iH6R60D
UGU
VGU
WGU
UGD
VGD
WGD
U
V
W
US
VS
WS
5VDC
R27 10K
R28 10K
1K R30
1K R31
R34 10K
R35 0.2R/2512
R32 10K
R33 0.2R/2512
R38 1K
R39 1K
R40 0.5R/2512
R41 0.5R/2512
C13 NC
C14 NC
C12 NC
C15 NC
IU+
IU-
IV+
IV-
ISN
CN2
3.96mm 1x3P
Q9 iH1060
Q10 iH1060
Q11 iH1060
Q14 iH1060
Q15 iH1060
Q16 iH1060
VREC
D14 RS1M
R67 1M 1206
R78 1M 1206
C30 4.7uF/450V D8X16
R71 200K 1206
R72 200K 1206
C28 2.2nF
D15 RS1M
FY1
10R/1206 R59
470pF C27
T2A EE13
D13 SS210
FY2
1nF CY1
3A/30V SOT89 Q21
1K 0805 R46
12VSB
C31 220uF/25V D6.3X8
R70 10K
DZ1 13V
C29 1uF/25V
SGND
R86 2R
U10 iP7623P
CS
FB
NC
VCC
D
GND
R89 2M
R94 1.5M
R95 1K
R105 21K
C38 0.47uF
U11 TL431
Q20 MMBT2907
D4148 D16
82K R92
4.7R R82
10K R81
D18 RS1D
R100 0805 5R1
T2C EE13
C41 10uF/50V DSX11
R106 15K
C42 NC
C40 0.1uF 0805
D17 RS1D
T2B EE13
0R R96 0805
C39 47uF/35V DSX11
5VDC
DIR
PWM
FG
ALR
U6 PC817C
U8 PC817C
U9 PC817C
U12 PC817C
R51 3.9K
R68 3.9K
R90 3.9K
R102 3.9K
R52 5.1K
R69 5.1K
R91 NC
R103 NC
C24 1uF/25V
MMBT3906 Q17
MMBT3904 Q19
R61 10K
R64 10K
R80 10K
R87 10K
R97 1K
R104 1K
F/R
PWMD
FGD
FAULT
CN3
2.5mm 1x6P
TSSOP-24 U7 iU6399
NRST
Data
Clock
Lo_W
Hi_W
Lo_V
Hi_V
Lo_U
Hi_U
VDD
VSS
VIN
OVP
FG
OCP
OTP
I_a
I_aN
I_aP
I_b
I_bN
I_bP
ILIM
PWM
R55 10K
R57 100R
R63 100R
R66 100R
R73 100R
R77 100R
R79 100R
R83 100R
R88 100R
R58 100R
R62 1K
R74 4.99K
R84 4.99K
R98 1K
R99 100R 1206
C25 1uF
C26 1nF
C32 0.1uF
C33 10nF
C34 1uF
C35 1uF/25V 0805
C36 1nF
C37 1uF
R53 10K
R54 510K/1206
R60 510K/1206
R75 10K
TH2 100K
R85 100R
R93 10K
R101 100K
J1 2.54mm 1*4P Male
R56 10K
R65 10K
R76 100K
Q18 2N7002
CLK
DATA
N1
N2
N4
N5
N6
OVP
OCP
OTP
IU+
IV+
IV-
ILIM
Title
APFC 250W Air Cooler: iU6399 + iP7623P +iT2104
Size
A2
Number
PCB-P-T430
Revision
02
Date:
2025/8/25
Sheet of
File:
D:\energy-Data\...\PCB-P-T430-02 SCH.SchDoc
Drawn By: