H1
MountingHole

LED LED LED 6502 BI COLOR LED LED LED LED
D7 D5 D3 D4 D1 D2 D9 D8
POWER VP INT 6502 EN EMU NMI CS WAIT

H2
MountingHole
SW1
RESET

470 R13 470 R6 470 R5 470Ω R8 100 R14 470 R4 470 R12 470 R11

J3 6502 ONLY J2 65816 RESET

J11

FRONT PANEL

GND RTS VCC RX TX CTS
FPANEL

C35 0.1u

U14
NT3 NetTie_2 0.1u
C31
U33 7HC374
7HC374 0.1u
C36
U31 7LS244
4700 RN5

TL16C550CFN

C46 47uF

U2 0.1u C39
UART CLOCK JP13 SER INT
C29 22u
R1 470

U21 74LS74
0.1u C34

BOARD GUIDES EXCLUSION ZONE

U13 CPU CLOCK
0.1u C11

U17 74LS07
C3 R9 1KΩ

U7 74LS14
0.1u C18

U4 74LS07
0.1u C6

1N4148 D6
C26 10u
C1 0.1u
IC1 C12 0.1u
C23

U19 27C64
0.1u C17

U10 0.1u C15
GAL16V8
U9 0.1u C24
GAL22V10
C1 0.1u C14
R7 10 C33

U5 74LS14
0.1u C10

65816CPU-DIP
0.1u C21

U20 GAL22V10
0.1u C4 0.1u C13
U18 74LS245

BOARD GUIDES EXCLUSION ZONE

U19 DS1233
0.1u C19 JP2 I2C INT JP1 RES SEL

RN4 4700

BUS CPU
JP7 0.1u C16
U1 74LS244

U23 74LS244
0.1u C38
U6 74LS244 10K R10
0.1u C5
RN1 4700

U5 74LS244
0.1u C20

U2 74LS244
0.1u C2

RN2 1KΩ

U22 74LS688
0.1u C22
IO Address Select
NT4 NetTie_2
$95 J1

U8
0.1u C8

JP10
A7 A6 A5 A4
IO PORT ADDR $50-$5F
RN8 10K
R2 10K
R3 10K
C30 0.1u

U12 74LS688
0.1u C9

U24 74LS245
0.1u C37
U27 74LS374
0.1u C40
PCF8884 C32 0.1u

C25 10u P1 CONN_02X25

C27 10u PROCESSOR.65816, VERSION 0.81, AS OF 12 NOV 2023 P2 CONN_02X25

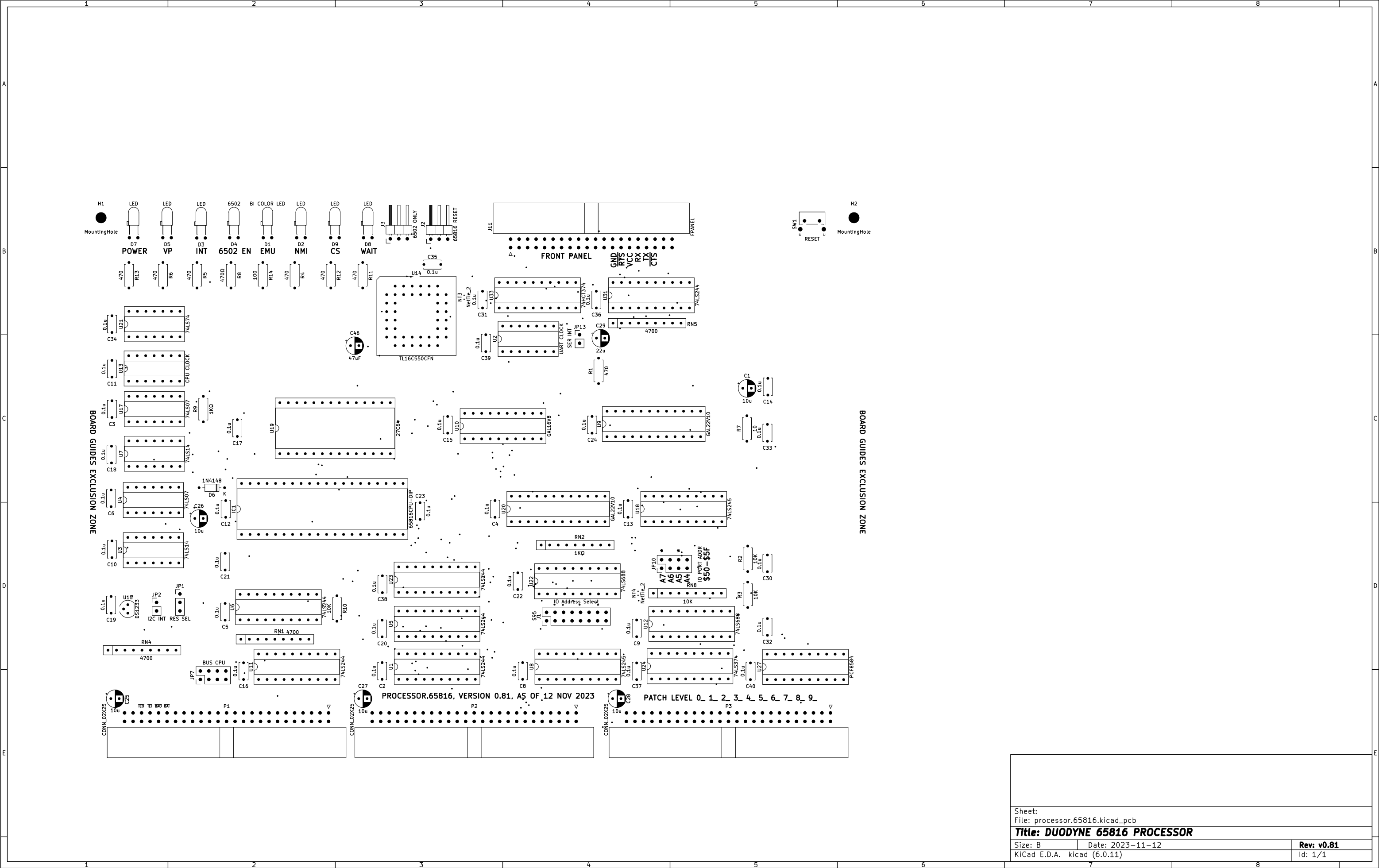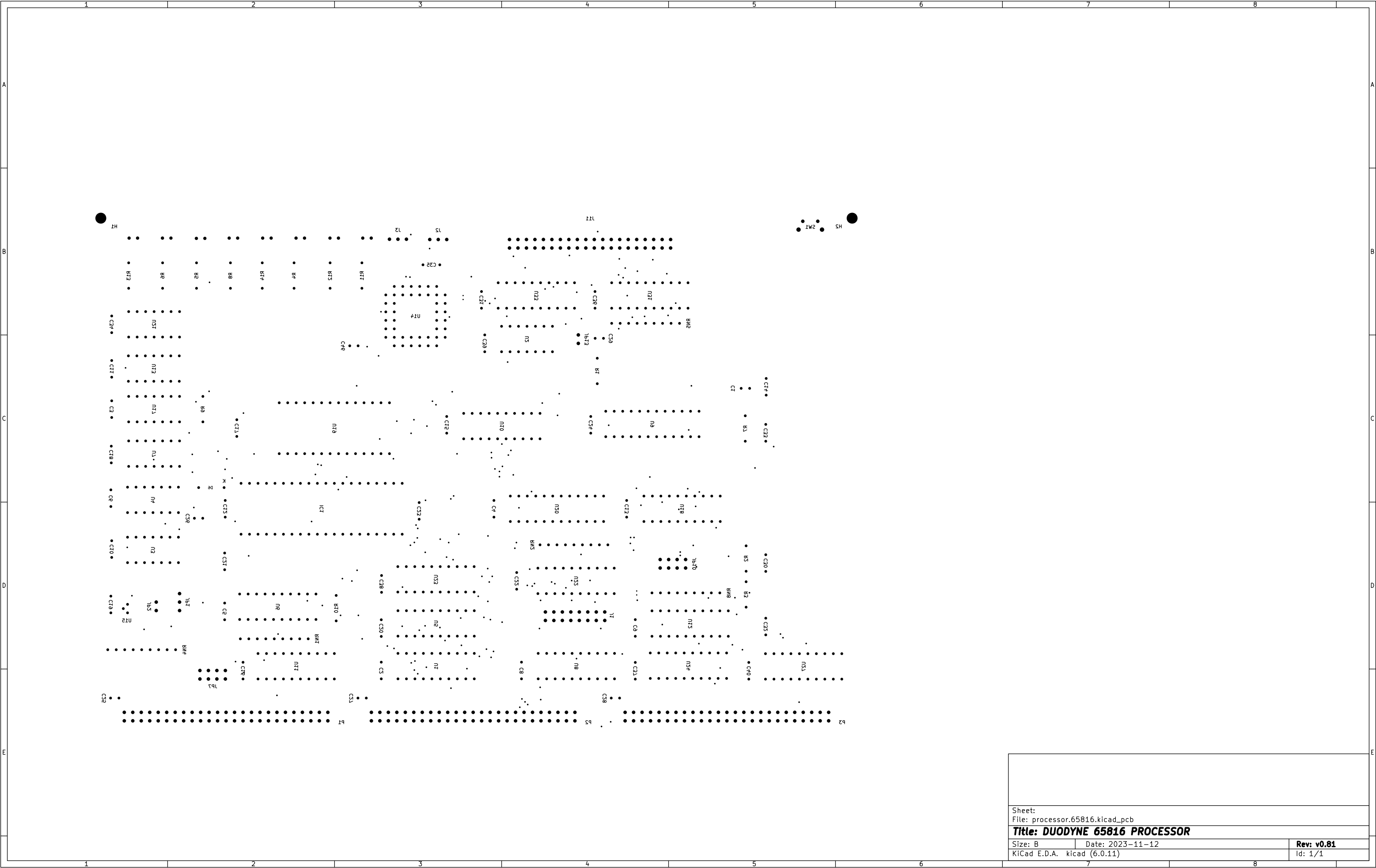C28 10u PATCH LEVEL 0_ 1_ 2_ 3_ 4_ 5_ 6_ 7_ 8_ 9_ P3 CONN_02X25

Sheet:
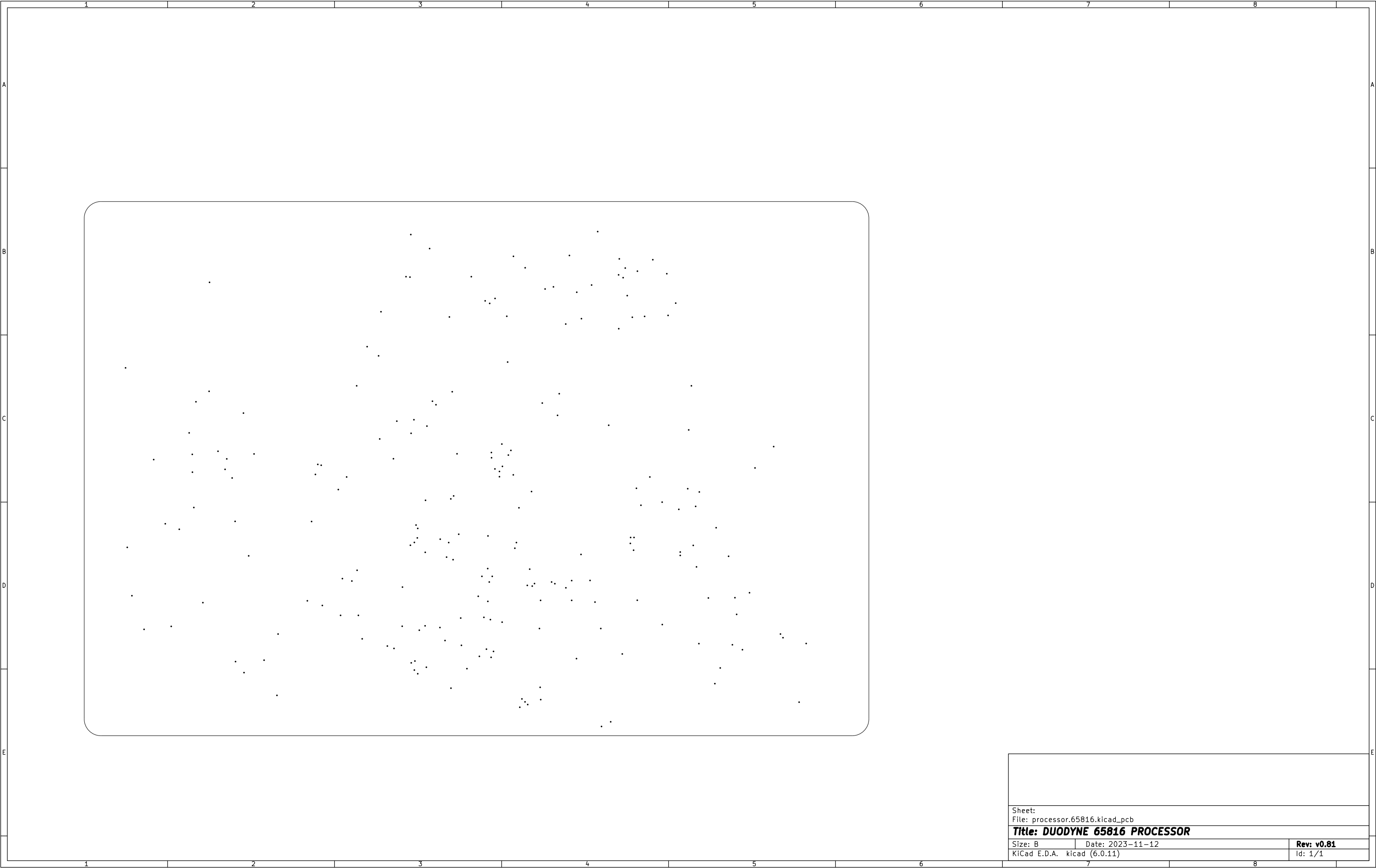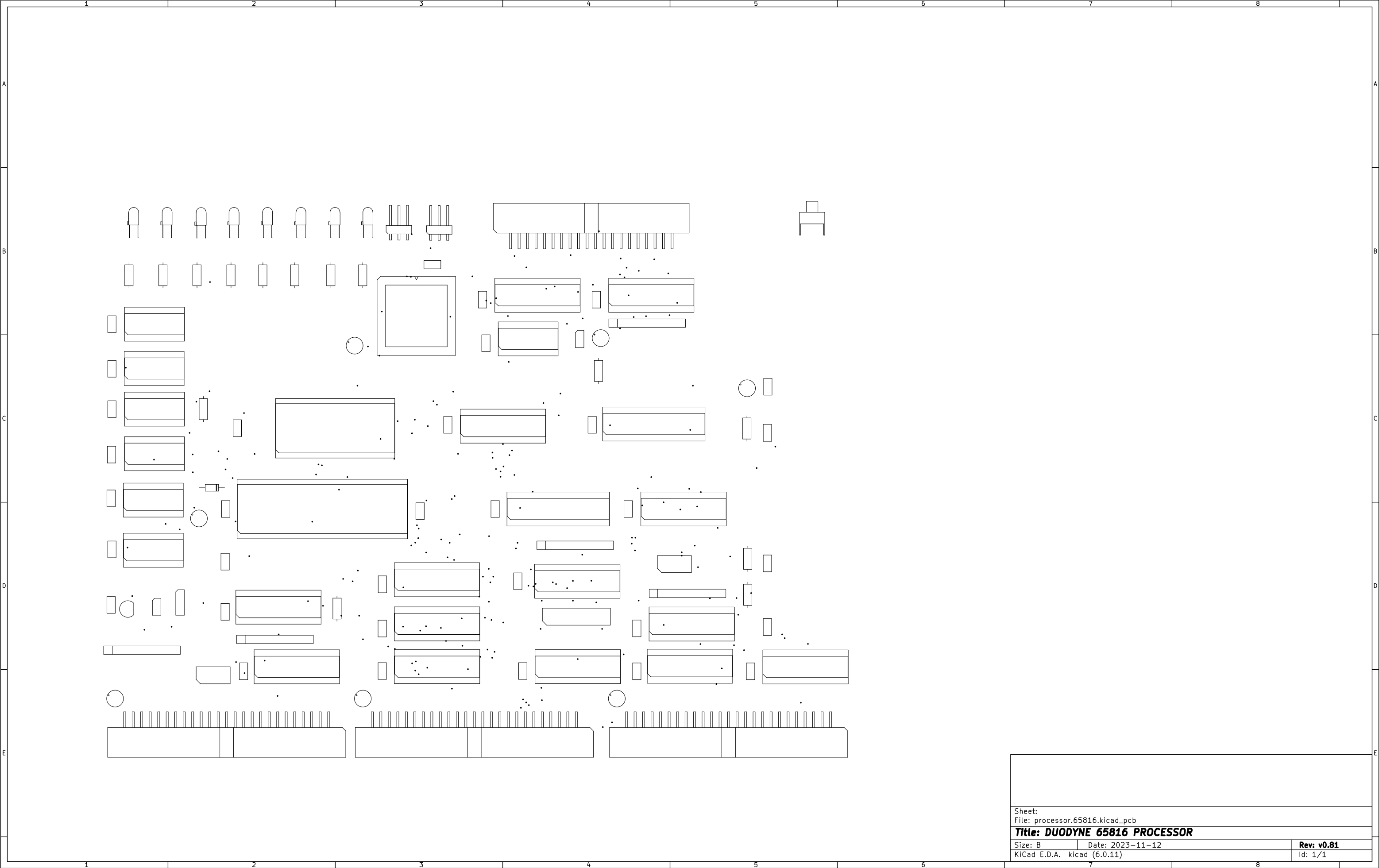File: processor.65816.kicad_pcb
Title: DUODYNE 65816 PROCESSOR
Size: B   Date: 2023-11-12   Rev: v0.81
KiCad E.D.A. kicad (6.0.11)   Id: 1/1