OAK4-SoM-MAX DEV-KIT specs/datasheet:

Operating voltage: PoE+ 802.3at, USB PD 30W min, DC PWR in 8-20 V, min 30W.
Peak operating power: 30 W
Operating temperature: 10-30 degC

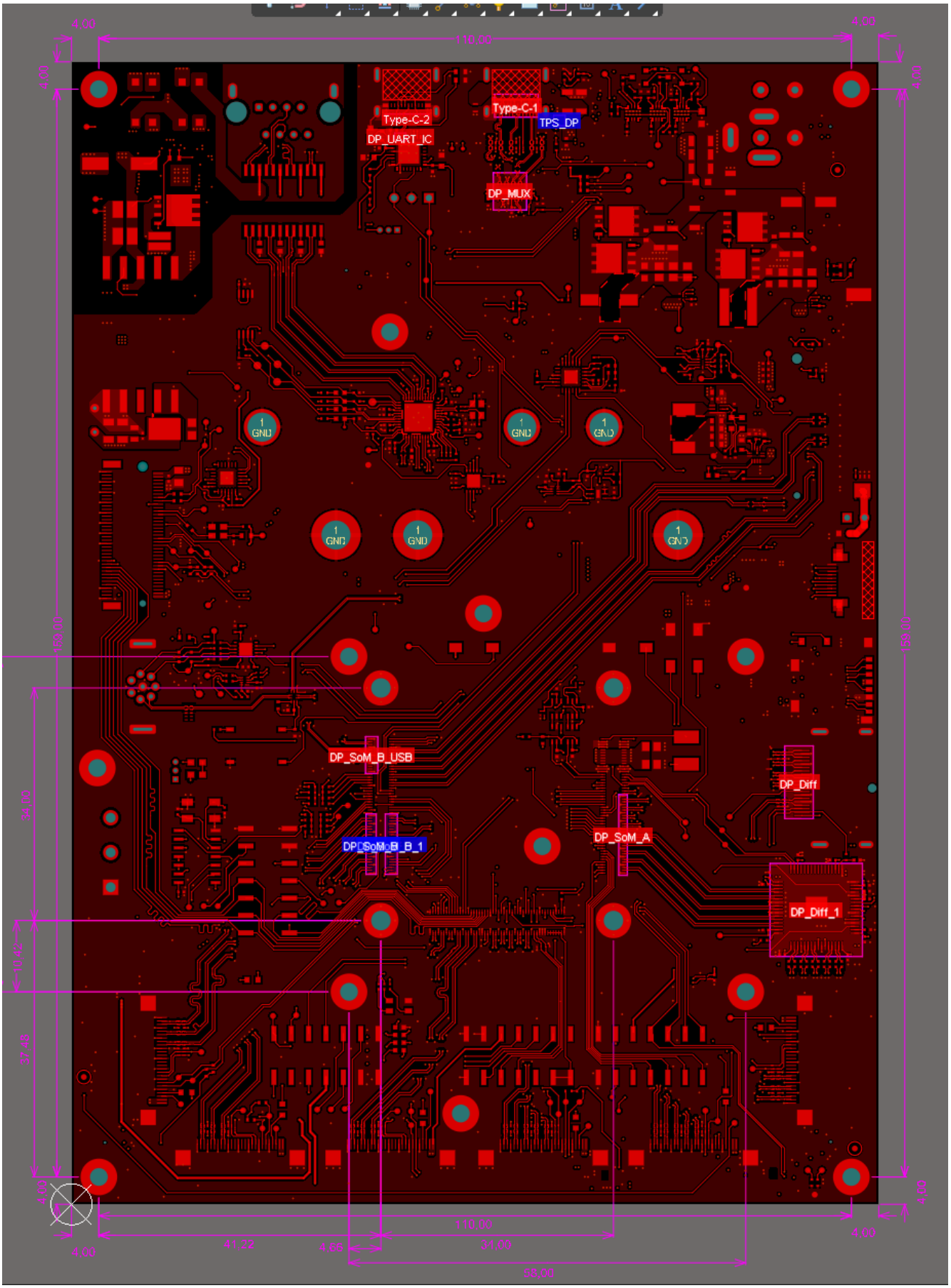
Peripherals:

- ETH PHY, 2.5G bps, RJ45 connector, PoE+ input
- M.2 connector:
    - E.key :
        - SDC connection
        - UART connection
        - Separate PS, needs to be enabled in FW
        - Up to 80mm long modules
    - M.key
        - PCIe GEN 4
        - Meant mostly for SSD
        - Separate PS, needs to be enabled in FW
        - Up to 80mm long modules
- USB-C type connector
    - UART debug, 115200 baud, 8N1
- USB-C
    - USB3.0 speed
    - Integrated USB PD sink 30W
    - Integrated USB PD source, 5V only up to 1A
- DC input jack
    - Power supply
- 6 CSI ports
    - 4 pcs 2 lane MIPI
    - 2 pcs 4 lane MIPI
- uSD card V6.0 support
- SPI, UART, I2C, I2S available on 2.54mm headers, 1V8 logic levels
- CAN interface
    - 3 pin 5.08mm screw terminal
    - Removable 120R termination
- M8 connector, same as on OAK4-D (5V, GND, USB 2.0, UART, Fsync).
- RGB status LED
- Connector for 5V fan for cooling SoM, should be included in package
- 4 MICS over I2S
- IMU, gyro, light and barometer sensors
- 10 FFC connector for DoT CBA connection
- PSRBS connector
- Power consumption meter on 3V9V rail (SoM) and on 5V rail (INA700)

- JTAG exposed, 10 pin FFC connector

Cooling of the SoM:
We have used an RPi 4 cooling tower that can be mounted and powered from DEV-KIT. For instructions, how to mount it, please refer to *Getting started with OAK4-DEV-KIT R4D0* document.

Dimensions for mounting can be found in the following picture. For any extra dimensions please refer to the .dwg file or .step model of the DEV-KIT placed in the same folder as this document.
Mounting holes have a diameter of 3mm (for M2.5 screw) and are spaced in a 159*110mm rectangle. Total outside dimension of PCB is 8mm bigger on each axis, so 167*118mm.
PCB weighs 145g, including corner standoffs, excluding SoM and M.2 modules.


Type-C-2
DP_UART_IC
Type-C-1
TPS_DP
DP_MUX
GND
DP_SoM_B_USB
DP_SoM_B_1
DP_SoM_A
DP_Diff
DP_Diff_1
4,00
110,00
150,00
24,00
10,42
37,48
41,22
4,66
31,00
58,00