

The diagram illustrates the internal circuitry of the ESP32-S3 module, organized into three main sections: Input output connector, Power supply, and a central component area.

Input output connector: This section shows the 23-pin header (PIN20X2 (2223)) connected to various components. It includes a 3V3 supply, a 5V PI supply, and a 10k pull-up resistor. The connector is also linked to a 10147606-00004LF component. A note states: "NOTE: No connections to be shared with UART".

Power supply: This section details the power regulation circuit. It features a 5V PI supply, a 3V3 supply, and a 1.8V supply. The circuit includes a 10k pull-up resistor, a 100nF capacitor, and a 100nF capacitor. The power supply is connected to a 5V PI supply, a 3V3 supply, and a 1.8V supply.

Central component area: This section contains the main processing and control components. It includes a 5V PI supply, a 3V3 supply, and a 1.8V supply. The central area is dominated by the ESP32-S3 module, which is connected to various peripheral components like capacitors, resistors, and ICs. The module is also connected to a 10k pull-up resistor and a 100nF capacitor.

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[illegible]

LED

+3V3

VDD

R51 330R

R48 330R

R49 330R

LTST-006GEBW.P2 LED1

LED1(3.5B)

CHR STATUS

LED2(3.5B)

Fuel Gauge

+3V3

R25 10K

VBAT

U1

MAX1046G+TDFN-Q8

QSTRT

MDO

ALERT

CELL

SCL

SDA

CTG

GND

C5 0.1uF

GNDGND

CryptoAuthentication

+3V3

U2B8

A7EC068BA-MAHDA-T

VCC

NC

NC

SCL

NC

SDA

EP

GND

TMP_SCL(3.4A)

TMP_SDA(3.4A)

0.1uF

GND

CE

OSHW!

open hardware

PROTOCOL

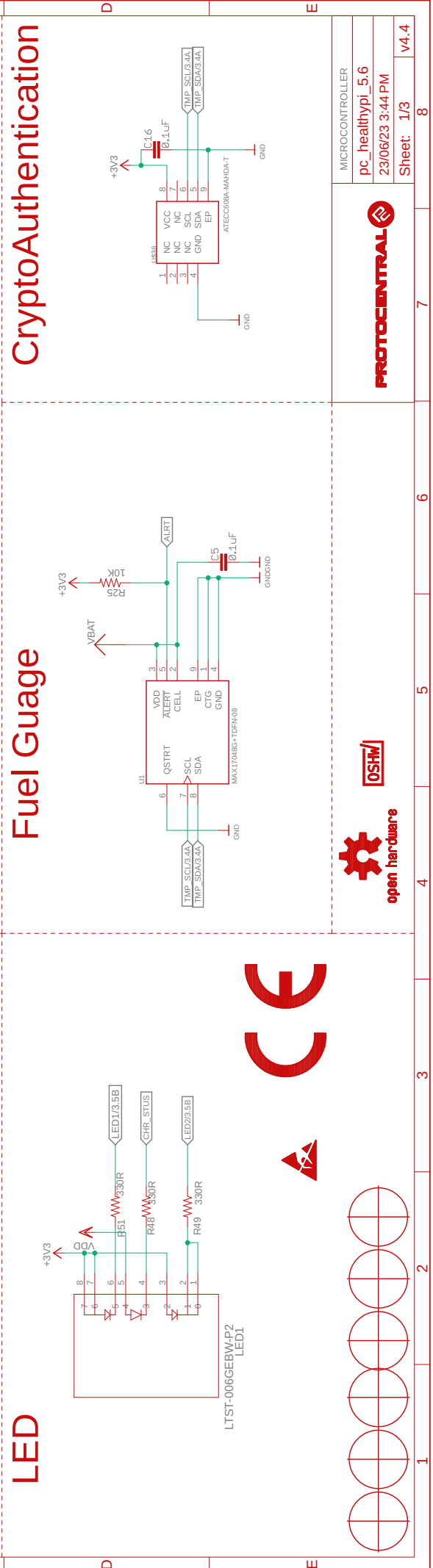
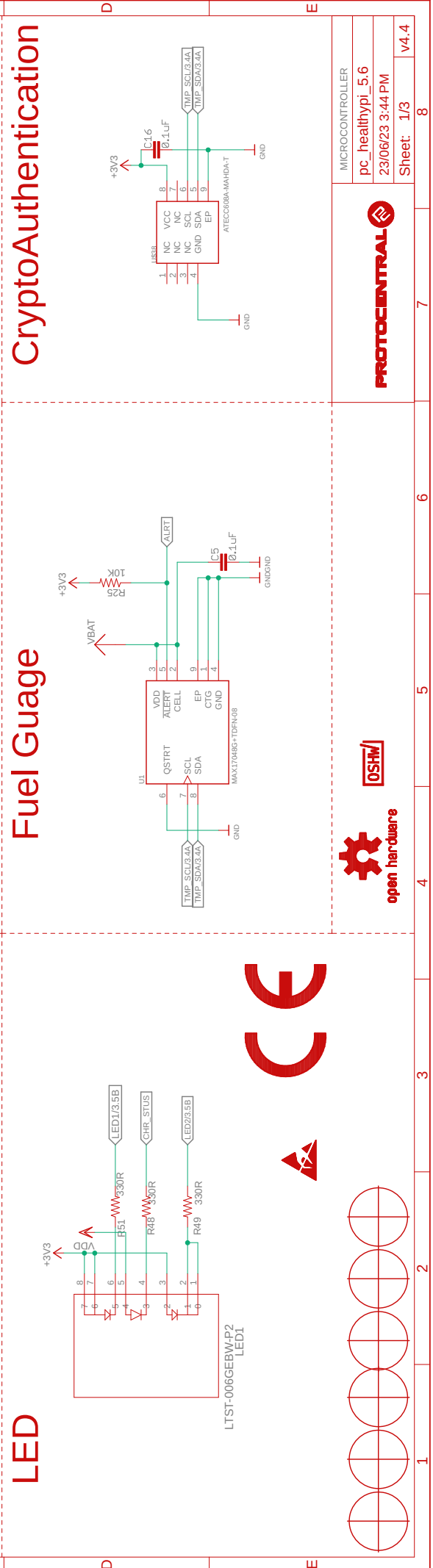
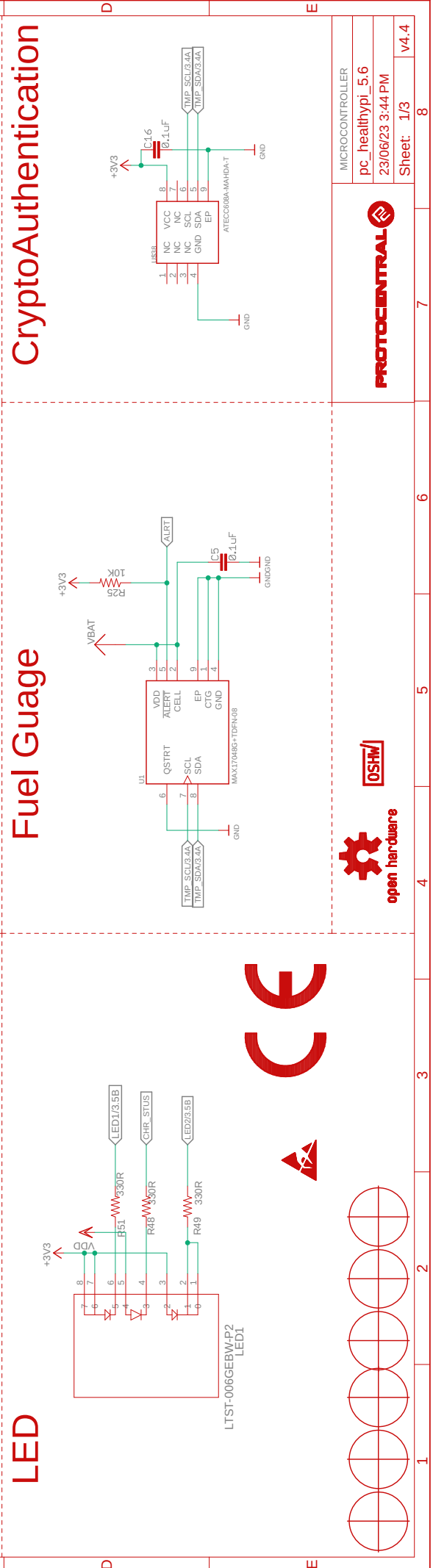
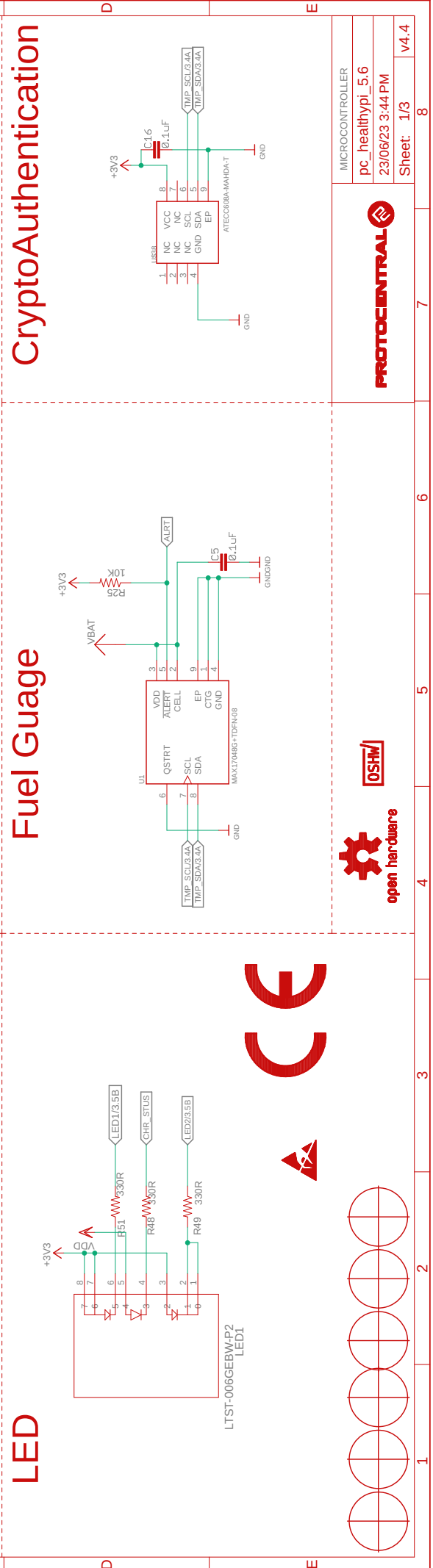
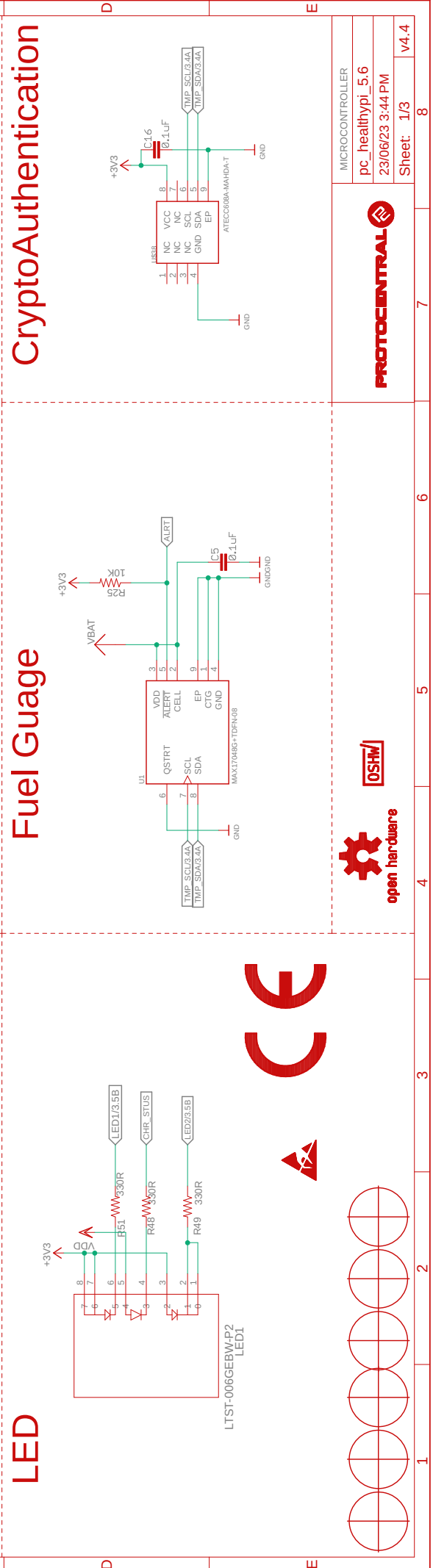
MICROCONTROLLER

pc_healthypi_5.6

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Sheet: 1/3 v4.4

1 2 3 4 5 6 7 8

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LED

Fuel Gauge

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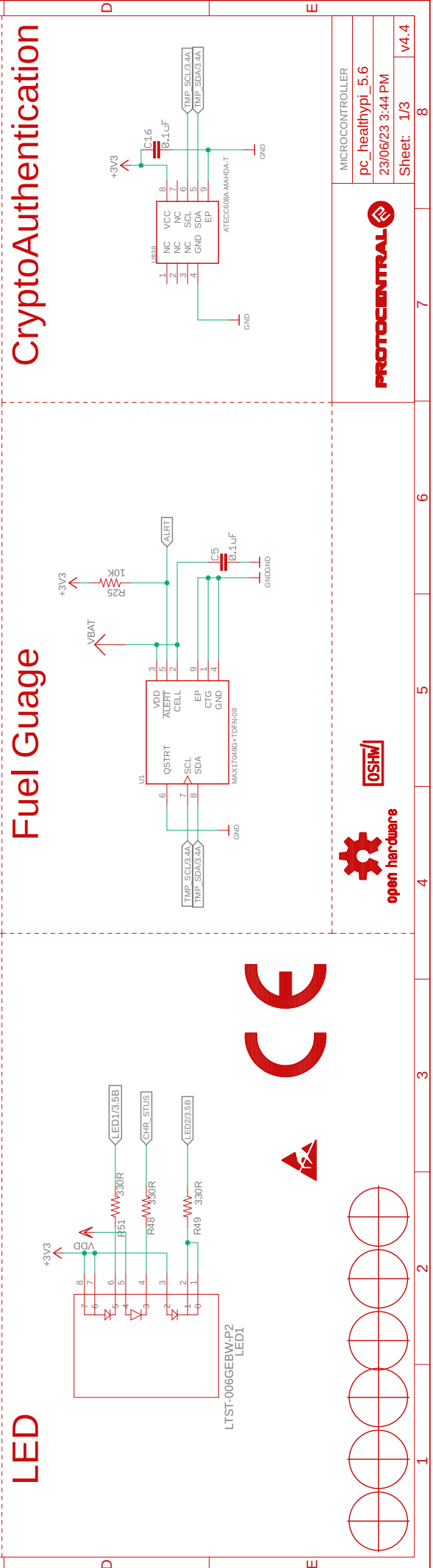
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