EcoNote+ Schematic Summary

1. Raspberry Pi 4B Header

40-pin GPIO header connected to:
- 5V, GND
- GPIO17 to LED (D1) through 330 Ohm Resistor (R1)

2. USB Ports

USB Type-A x2 connected to VBUS (5V) and USB D+/D- lines using standard pinout.

3. HDMI Output

HDMI output connected to Raspberry Pi HDMI breakout (19-pin).

4. Power Supply

USB-C Power Input (5V) with optional protection diode and 10uF capacitor.
Power rail supplies Pi, USB, LED.

5. LED Indicator

GPIO17 to R1 (330 Ohm) to D1 (Red LED) to GND. Used for status indication.

Note:

This schematic is a logical summary. Full KiCad schematic and PCB layout files are included in the GitHub package.