System Design

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BLOCK DIAGRAM

Diagram

Description automatically generated

SUPPLY CURRENTS

|  |  |  |  |
| --- | --- | --- | --- |
| Part | Id(3V3) | Id(Unregulated) | Id (USB) |
| MCU (ESP32-D0WD-V3) ACTIVE RF | 160~260mA | - | - |
| MCU (ESP32-D0WD-V3) INACTIVE RF | 3~20mA | - | - |
| Peltier Modules | - | 0-12.8A (TBD based on voltage and environment, 1.98 ohm resistance) | - |
| Battery charging | - | - | 0-2A (TBD, based on battery) |