Input:

1. 3S LiPO battery (xt90 or xt60)

OR

1. Barrel Jack (2.5mm ID x 5.0mm OD) 19V wallwart

Switched input (switch # 1), hot swap not required but nice to have

Switch on/off (switch # 2)

Output:

1. DC barrel jack 2.5mm ID x 5.0mm OD, or Terminal Block, 9-19V, >= 45W, (for Jetson Orin Nano dev kit)
2. Terminal Blocks (3.50mm) x 2 - 12V, 1A minimum
3. Terminal Blocks (3.50mm) x 2 - 5V, 1A minimum
4. 4-pin female for LiPO battery voltage tester/buzzer
5. B4B-PH-SM4-TB Connector - 12V, 500mA minimum, (for Hokuyo 30LX LiDAR)
6. BM06B-SRSS-TB Connector - 12V, 500mA minimum, (for Hokuyo 10XL LiDAR)

Form factor:

Around 10cm L x 5cm W x 3cm H

Enclosure is nice to have