Power Supply Solutions with Smart VBuffer

The Smart VBuffer device is a super capacitor device, that is able to store a certain portion of energy, that can be used for 2 main purposes:

1. Emergency power if primary power fails to allow safe autrorotation or landing

2. Deliver power spikes to unload the main power supply and lower resistance of wiring

The device has a pass through port, that provides the original port functionality without altering the signal. So this can be used to put the device into a servo connection or i.e. the RPM connection. It may be used to power the system for this port as well.

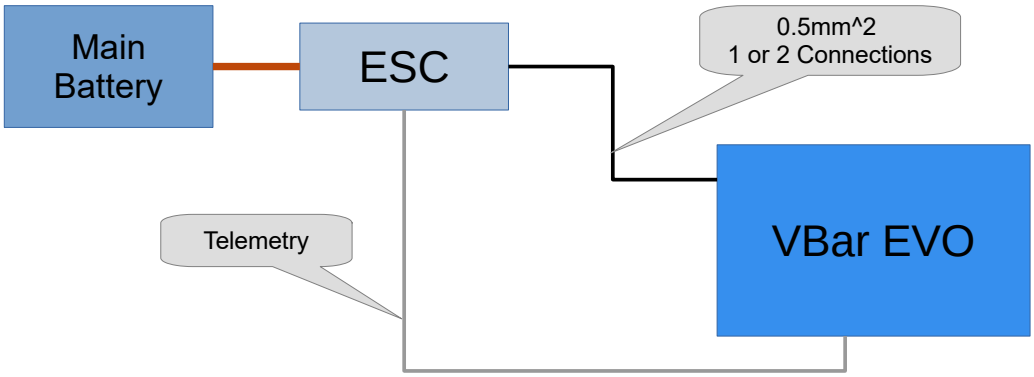
Each connection from the a buffer device to the EVO can be seen as a separate battery, since it can deliver at least similar power as a battery. On the other hand, it only pulls the relatively small maximum charge current that is set up, so the supply wiring is no longer critical. So its possible to get a Power distribution box functionality without adding complexity in handling and maintaining batteries.

Devices can be cascaded up to 3 devices, that all are handled by an app from the VControl. This allows to get huge capacity and very high peak currents, similar to multiple battery setups. Since they all integrate into the telemetry, no additional actions are needed to switch on/off or maintain the setup.

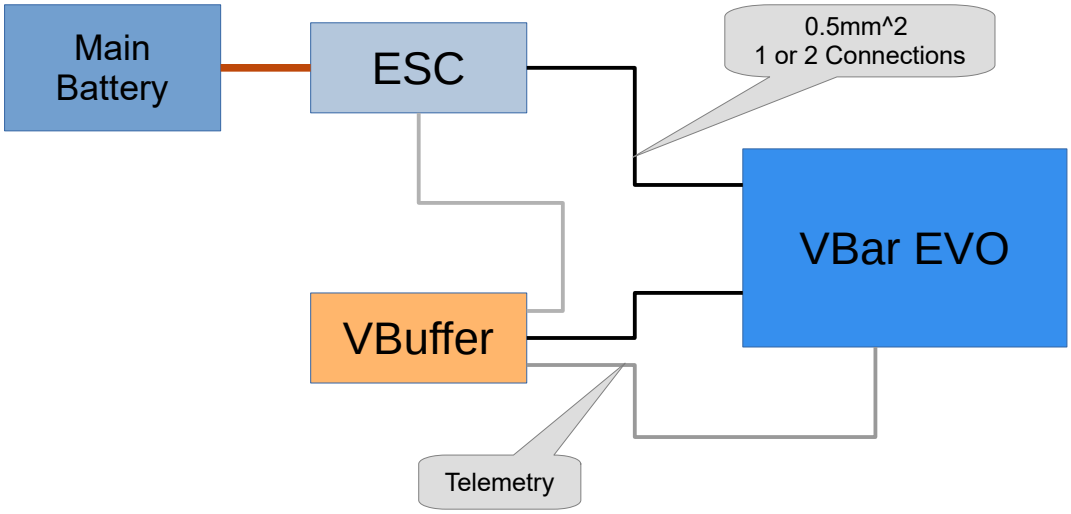
VBuffer maintains an equal distribution of power, even crossfeeding power between devices if needed. So a failed device can be substituted by another one in case of failure.

If an RC Battery is used, the wiring and the switch that supplys power to the system does not need to have high current rating, since it mainly carries the charging power and not the high peak currents from the servos. If even does not need to have high reliability, since the main power is drawn from the buffers in use.

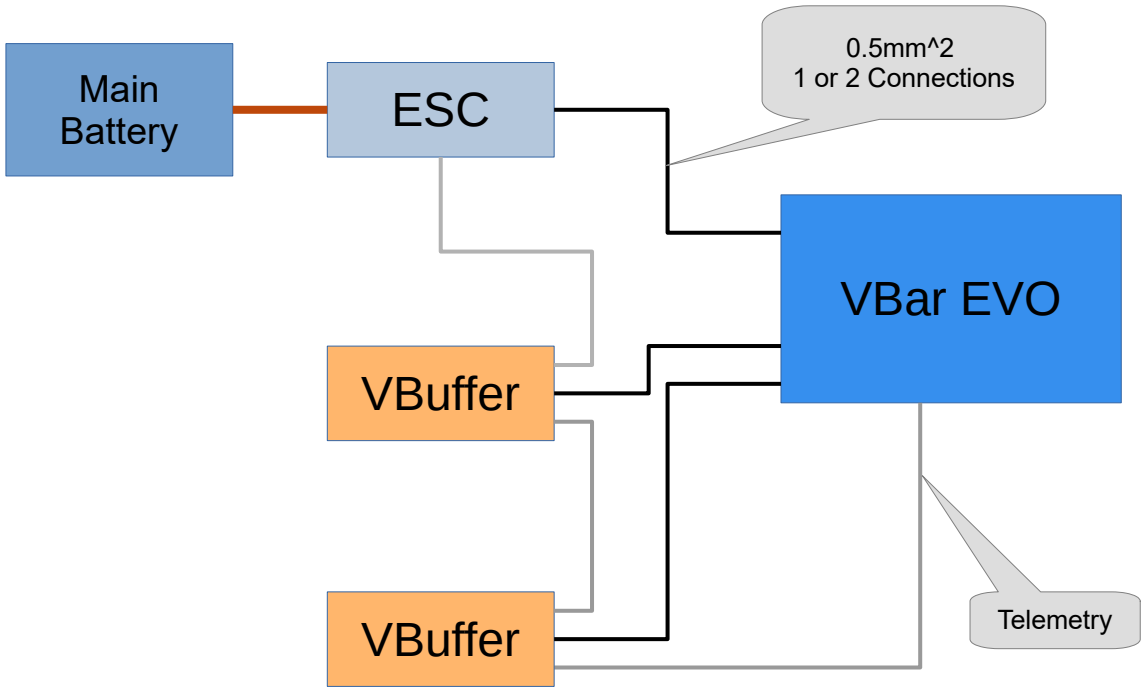
Heli Setup Without Buffer



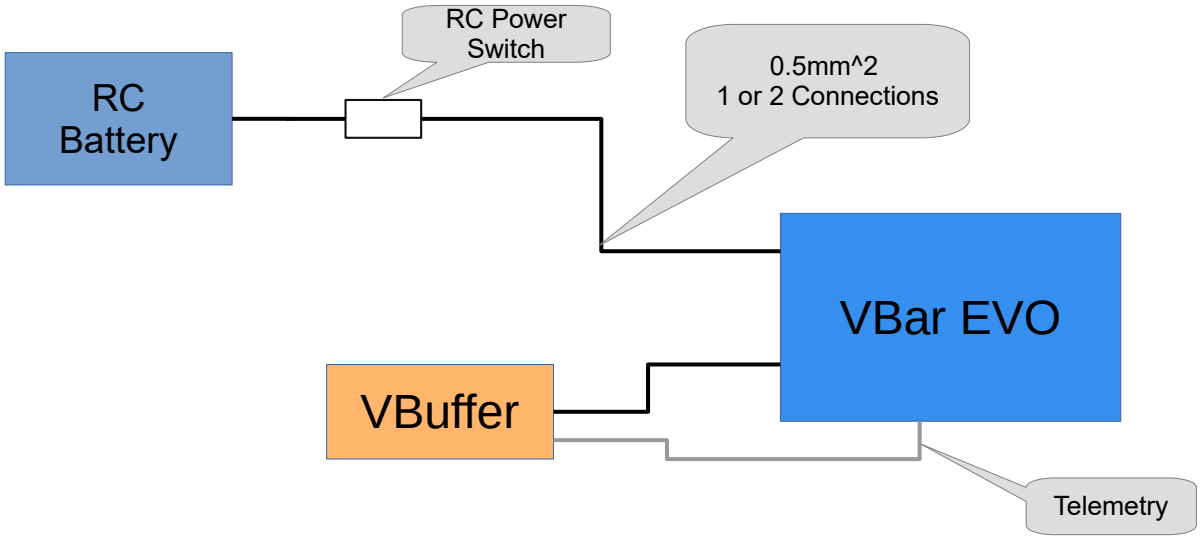
Standard Power Setup Heli up to 700 3D



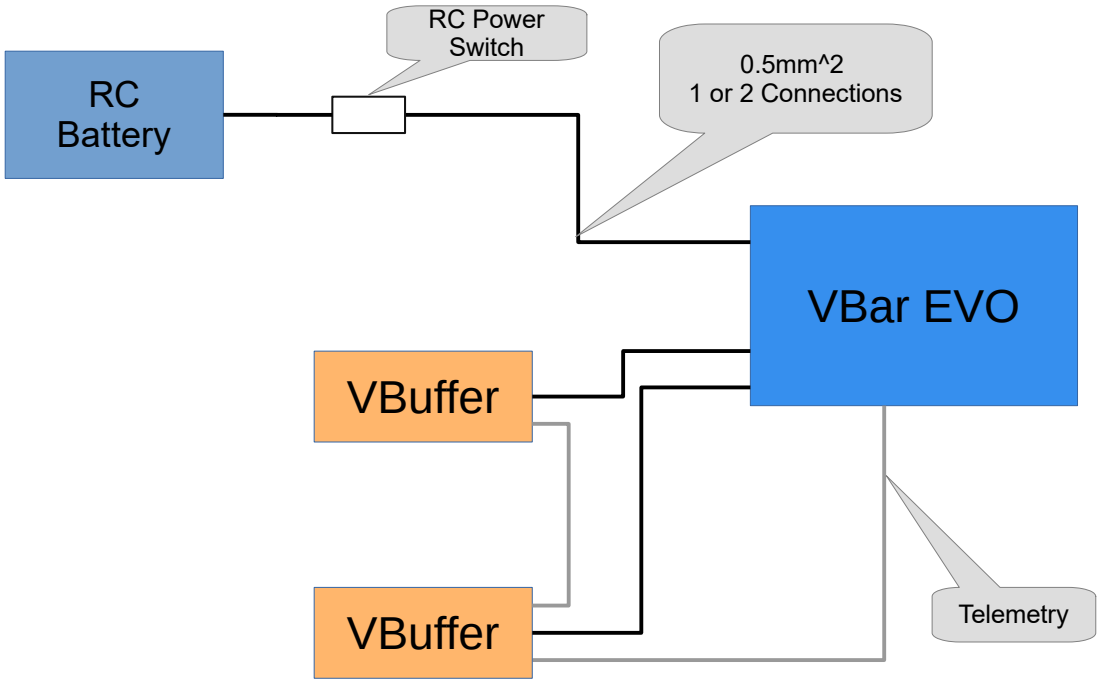
Double Buffer for Big Electric Helis



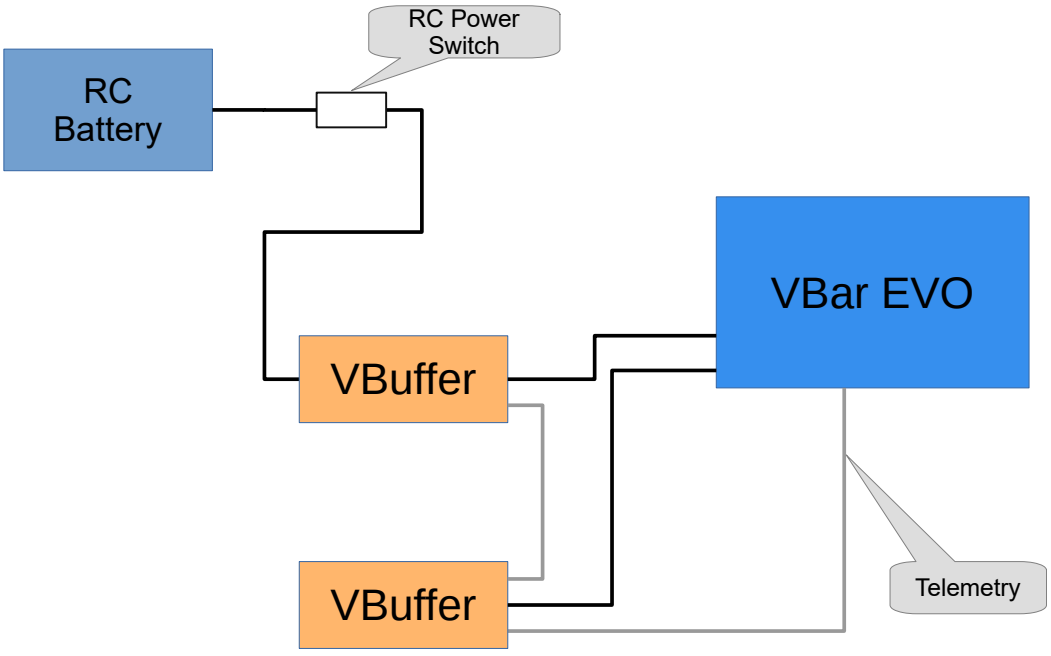
Nitro Heli / Plane



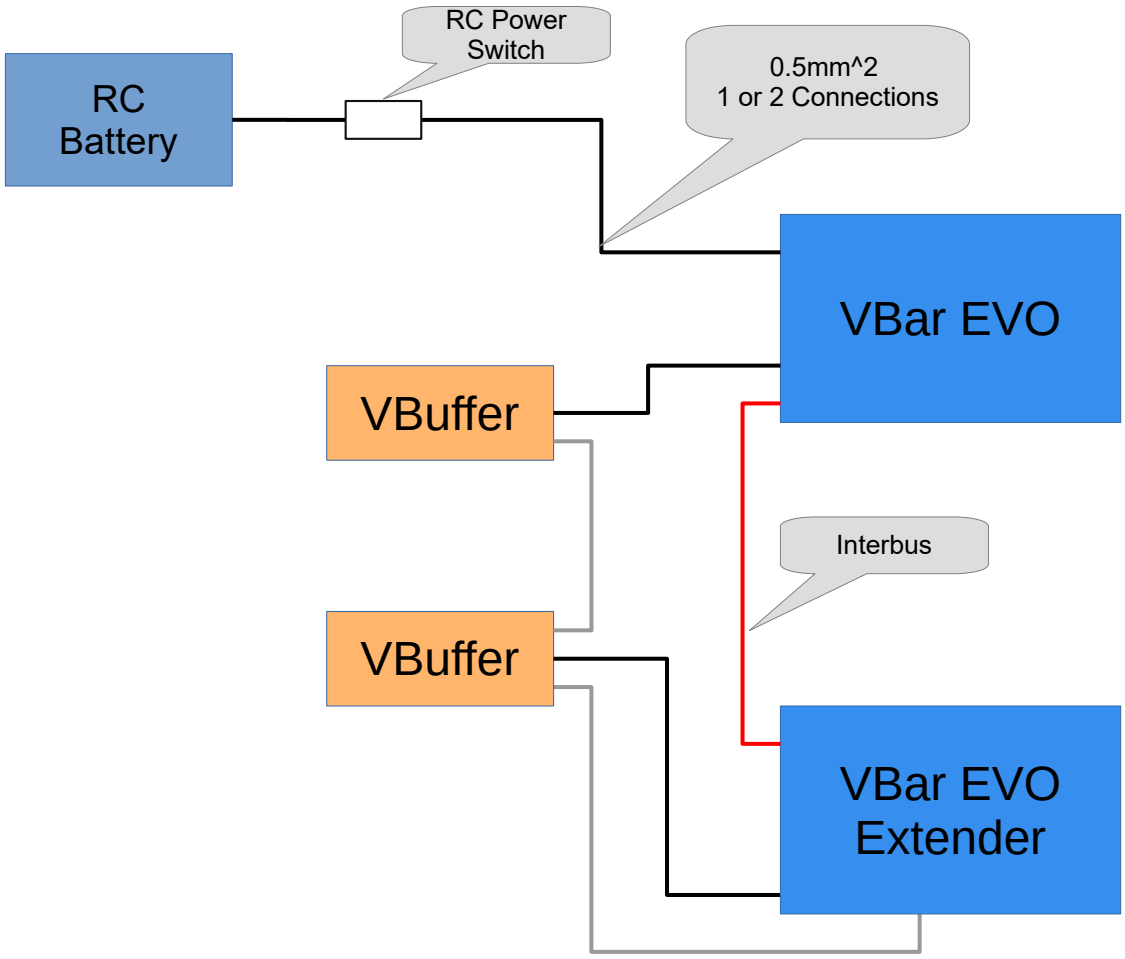
Big Nitro Heli / Plane



Alternative Power Connection to save Ports



Double EVO Setup with double Backups



Maximum Setup with triple redundant EVO and 3 Backup Devices

