Quick Installation Guide

XGuard Pro C75

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LIABILITY DISCLAIMER

This device is for use exclusively on a radio controlled (RC) model. RC models are not toys. Moving parts can present a hazard to operators, bystanders and anyone or anything that could be reached by the RC model. Improper operation, maintenance or assembly can potentially cause an RC Model to pose a danger to persons or objects including but not limited to the possibility of causing serious physical injury and even death. After leaving its facilities the manufacturer has no way of maintaining control or supervision over the assembly and/or operation of the RC model or the addition of this device to the RC Model therefore the manufacturer and/or its agents assume no responsibility or liability whatsoever for any damages including but not limited to ones generated by incidental or consequential damages. The operator of the RC Model assumes all responsibility and liability that could result from the correct or incorrect operation of the RC Model.

This product is intended to be used by experienced adult radio control model perators under controlled safety conditions and on locations properly authorized and setup for safe flying and away from other people. This product must not be operated without reasonable personal or commercial Liability Insurance.

Under no circumstance should a minor be allowed to operate any radio controlled odel without the approval, supervision and direction of his parent or legal guardian who takes full responsibility and assumes full liability of every kind for the minor's actions.

Do not operate an RC models within the vicinity of homes, trees, electrical lines during inclement weather or rain or near crowds of people.
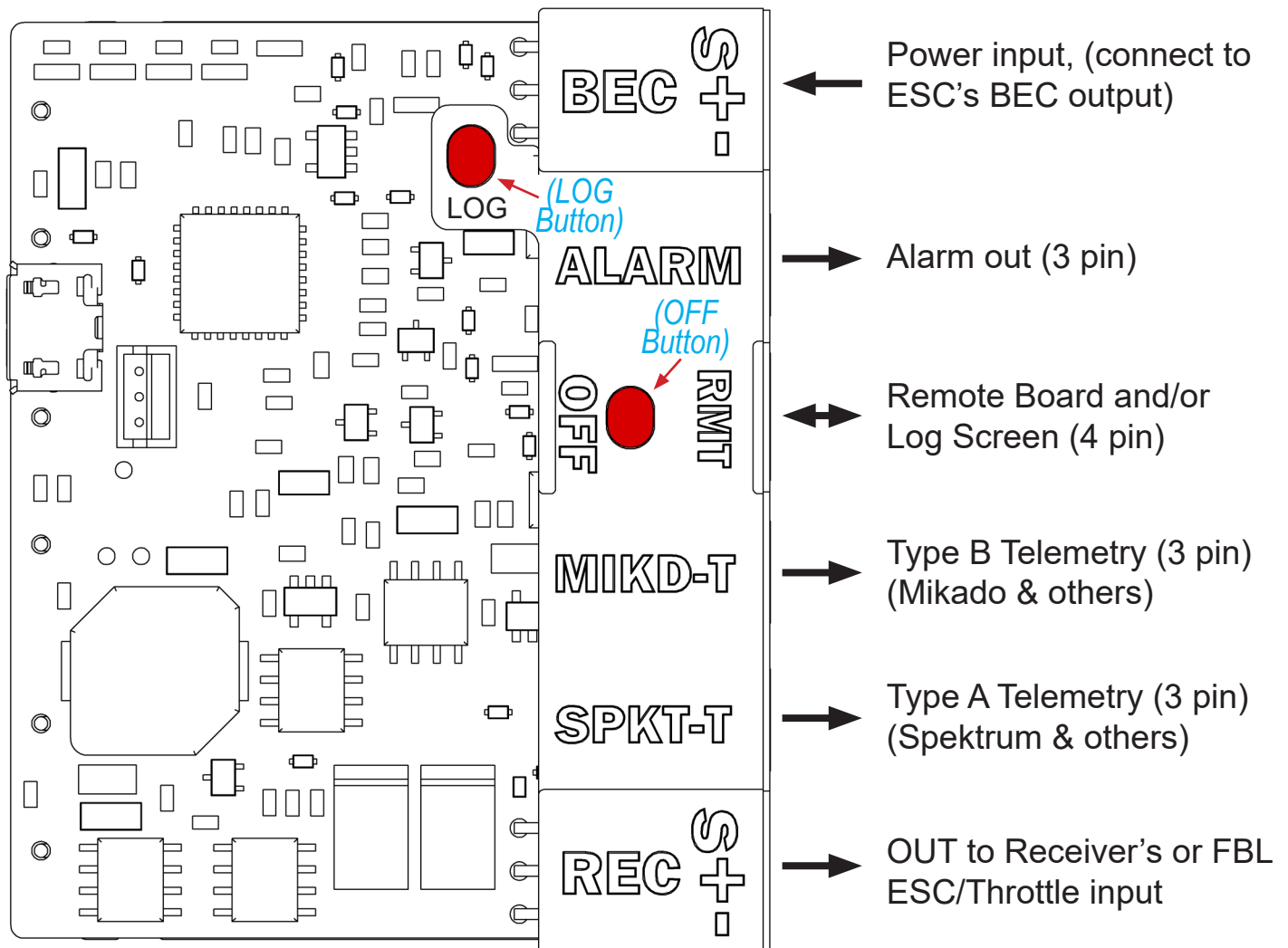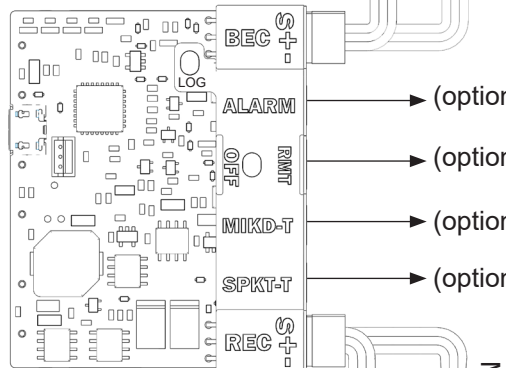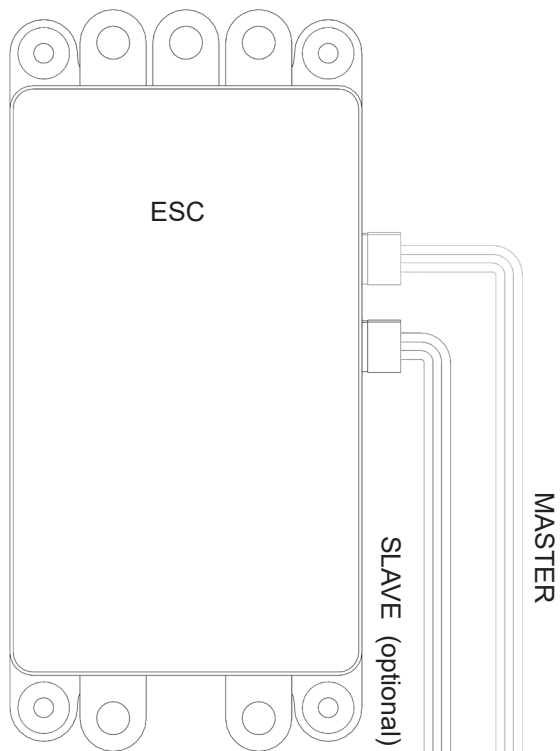
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BEC S + − → Power input, (connect to ESC's BEC output)

LOG *(LOG Button)*

ALARM → Alarm out (3 pin)

OFF *(OFF Button)* RMT ↔ Remote Board and/or Log Screen (4 pin)

MIKD-T → Type B Telemetry (3 pin) (Mikado & others)

SPKT-T → Type A Telemetry (3 pin) (Spektrum & others)

REC S + − → OUT to Receiver's or FBL ESC/Throttle input

Figure 1 - Ports description

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Figure 2 - Connection Diagram

ESC

SLAVE (optional)

MASTER

BEC S+

LOG

ALARM

OFF RMT

MIKD-T

SPKT-T

REC S+

SLAVE (optional)

MASTER

AUX1

ESC-THROTTLE

TELE1   TELE2

MIKADO NEO RECEIVER

Connect the telemetry to TELE1 port

(optional) Connect the strobe light(s) or Buzzer daisy chain to this port

(optional) Connect the Remote Board and/or Log Screen daisy chain to this port

(optional) If using Mikado Neo connect this port to the Neo's TELE1 port
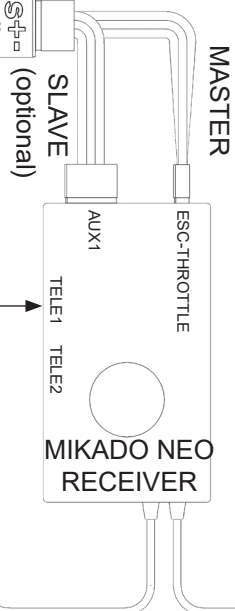
(optional) If using Spektrum connect this port to the telemetry port

MODES OF OPERATION

1.- BEC Mode. The XGuard will monitor voltage and will trigger an alarm condition after a consistent small drop in BEC voltage under load.

2.- Battery Pack Mode: The XGuard will monitor voltage and will trigger an alarm condition after 5.5V voltage under load is reached

3.- Battery Pack Mode with Cell Balance monitor: The XGuard will monitor voltage and will trigger an alarm condition after 5.5V voltage under load is reached or a cell unbalance of 100mV is reached.

SELECTING OPERATION MODE:

Switching between BEC mode and Battery Pack mode is done by holding the OFF button on the XGuard itself while powering the XGuard.

To switch between Battery Pack Mode with Cell balance monitor is done by holding the LOG button on the XGuard itself while powering the XGuard.

TURNING OFF
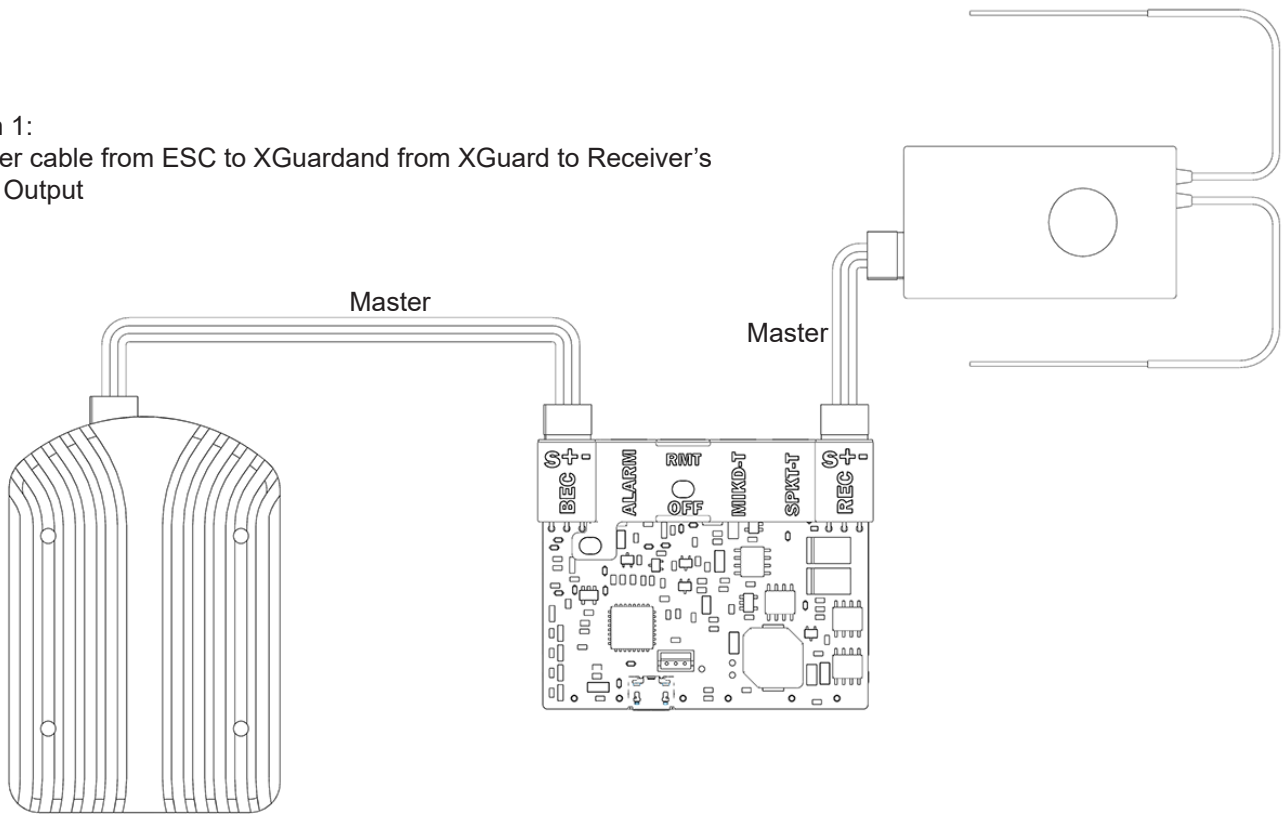
In order to turn the XGuard off power off the BEC or disconnect the battery. The XGuard will flash reporting a power failure and only undr this condition the XGuard will interpret a push in the OFF button as a command to turn off. If you try to push the OFF button while still powered the XGuard will not turn off and will display an alarm is an XStrobe or and XBuzzer are connected to the alarm port.

RESET/RESTART

If you want to reset the XGuard as in the case when you plug in a LOG Screen and want to initialize it press both log and power button at the same time and the XGuard will reinitialize itself and initialize the log Screen
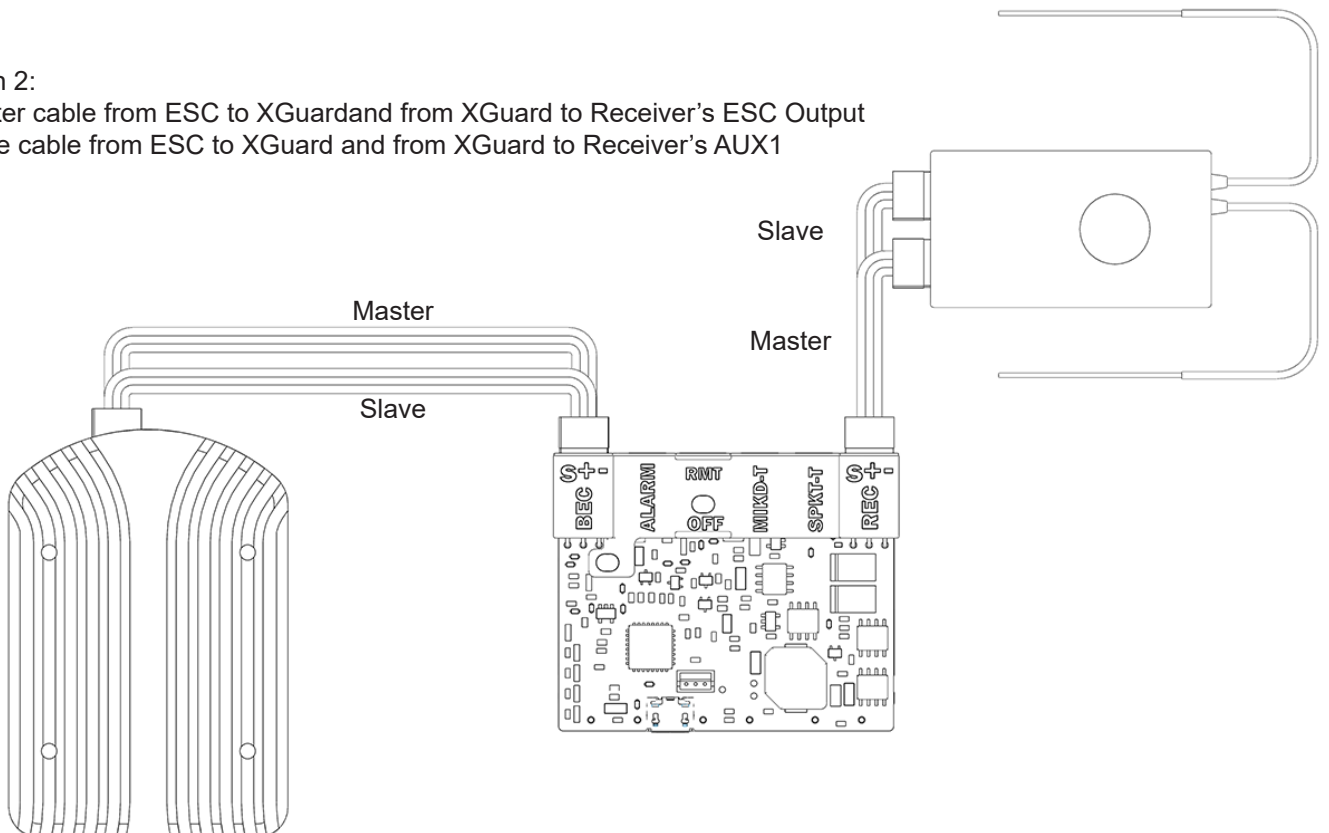
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Configuration 1:

Master cable from ESC to XGuardand from XGuard to Receiver's
ESC Output

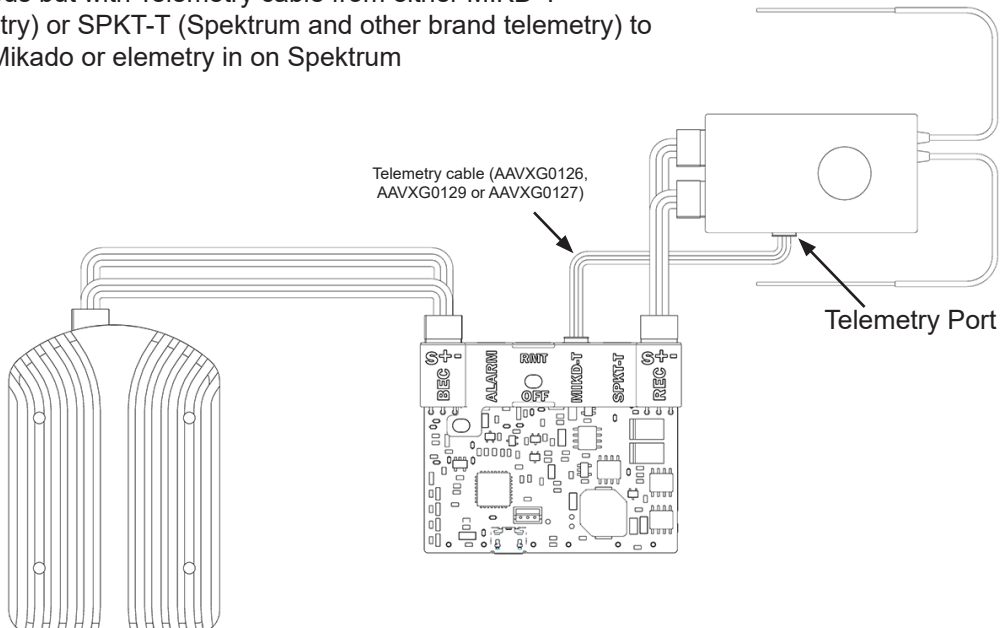Master

Master

BEC ALARM RMT OFF MIKD-T SPKT-T REC

Configuration 2:

Master cable from ESC to XGuardand from XGuard to Receiver's ESC Output
Slave cable from ESC to XGuard and from XGuard to Receiver's AUX1

Slave

Master

Master

Slave

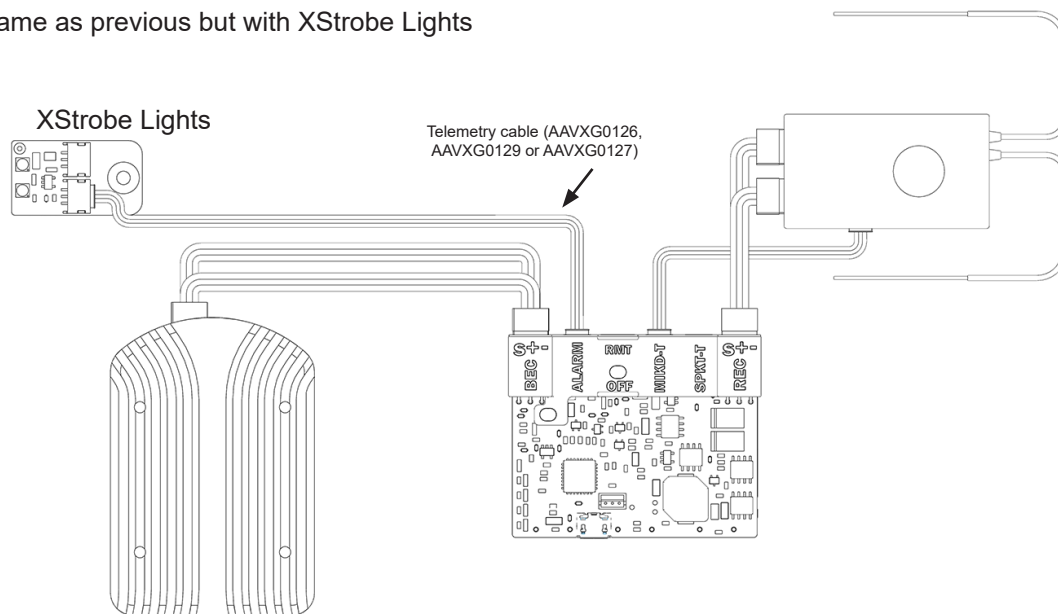BEC ALARM RMT OFF MIKD-T SPKT-T REC

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Configuration 3:
   Same as previous but with Telemetry cable from either MIKD-T
   (Mikado telemetry) or SPKT-T (Spektrum and other brand telemetry) to
   the TELE1 on Mikado or elemetry in on Spektrum

Telemetry cable (AAVXG0126,
AAVXG0129 or AAVXG0127)

Telemetry Port

BEC S+ − ALARM RMT OFF MIKD-T SPKT-T REC S+ −

Configuration 4:
   Same as previous but with XStrobe Lights

XStrobe Lights

Telemetry cable (AAVXG0126,
AAVXG0129 or AAVXG0127)

BEC S+ − ALARM RMT OFF MIKD-T SPKT-T REC S+ −

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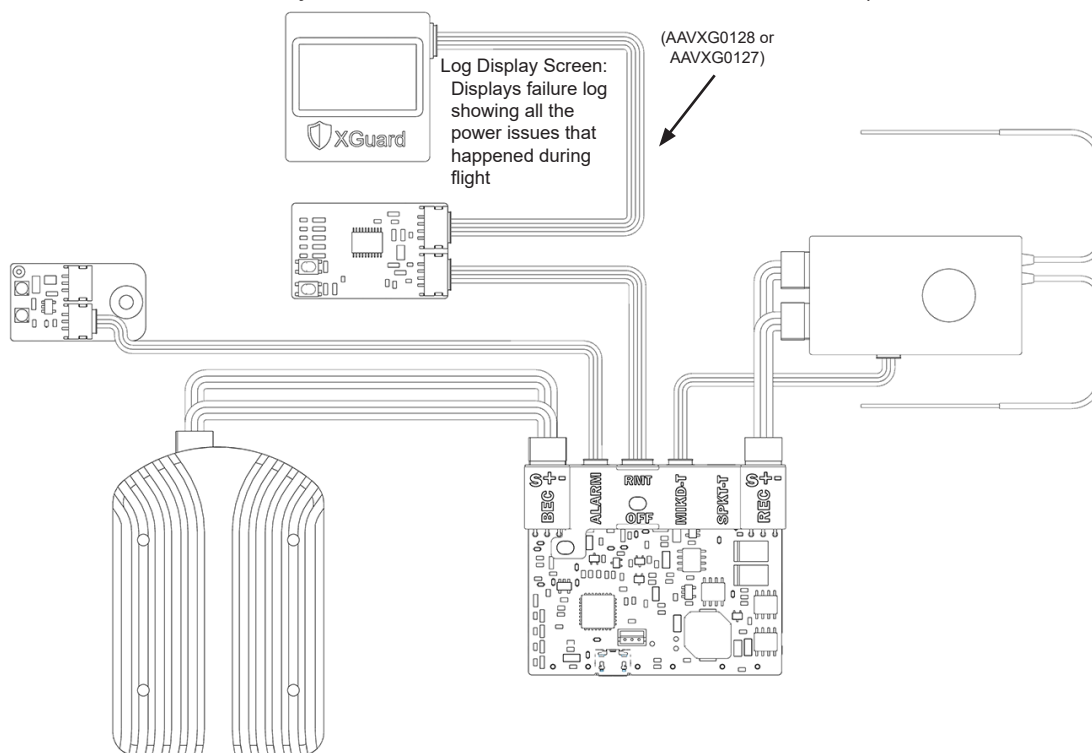**Configuration 5:**

Same as previous but with Remote Board so you can hide the XGuard
inside the frames and have all the diplay LEDS and switches available
in a small board in an accesible part of your craft.

(AAVXG0128 or
AAVXG0127)

Indicator LEDs

Remote Board

Remote off and
Log Switches

BEC S+

ALARM

RMT
OFF

MIIXD-T

SPXT-T

REC S+

Configuration 6:

Same as previous but with Log Display Screen (The screen can
be onnected directly into the XGuard too if no remote board is used)

(AAVXG0128 or
AAVXG0127)

Log Display Screen:
Displays failure log
showing all the
power issues that
happened during
flight

XGuard

BEC S+

ALARM

RMT
OFF

MIIXD-T

SPXT-T

REC S+

Configuration 7:
     Same as previous but with XBuzzer

XBuzzer:
100dB Loud horn to
advice via sound of
a failure in flight.

(AVXG0129 or AAVXG0127)