# **Avionics Cooling Solutions**

### **Increase Your Avionics Reliability**

It is well known that It is well known that reducing the temperature at which electronics components operate increases their life expectancy. The avionics you depend on for critical navigation and communication functions endure one of the harshest environments of any electronics...the avionics stack! Today's avionics are housed in smaller and smaller packages that retain heat. They are also subjected to chimney effect, where the heat from the bottom radios rise throughout the entire radio stack, increasing overall operating temperatures. Today's engineers are making greater use of surface mounted devices to reduce size and weight. And although these devices use less power, they can be more sensitive to hear. Fortunately, removing heat from your avionics is easy and inexpensive, making a cooling fan one of the best investments you can make when installing your new avionics. A cooling fan from SANDIA aerospace will give you the peace of mind knowing your avionics will continue to operate at peak performance.

#### The Choice Is Up To You

SANDIA aerospace offers a variety of cooling solutions to choose from. For most avionics stacks, a three port fan will provide all the cooling you need, two navigation units and a transponder. For more complex panel, try the five port fan. Used ports can be capped and reserved for use on later system upgrades

#### **Know When You Lose Your Cool**

For critical applications, SANDIA offers three cooling solutions that have a fault detections output that will notify you whenever the cooling unit drops below a preset level. This will allow you to obtain service on the unit as soon as practical, reducing any failure possibilities to your avionics.

## **Technical Specifications**

| Model    | Operating<br>Voltage | Current Draw                         | Size                  | Weight  | Fault<br>Detection | Certification      |
|----------|----------------------|--------------------------------------|-----------------------|---------|--------------------|--------------------|
| ACF 314  | 14 Vdc               | 960 mA nominal<br>(1.7A startup)     | 5.18" x 5.18" x 2.1"  | 1.18 lb | No                 | FAA-PMA            |
| ACF 328  | 28 Vdc               | 480 MA Nominal<br>(.85A startup)     | 5.18" x 5.18" x 2.1"  | 1.18 lb | No                 | FAA-PMA            |
| ACF 528  | 28 Vdc               | 480 mA nominal<br>(.85A startup)     | 5.13" x 6.77" x 2.1"  | 1.18 lb | No                 | FAA-PMA            |
| SAFE 328 | 22-31 Vdc            | 400 mA nominal<br>(550 mA startup)   | 5.58" x 4.75" x 1.25" | .70 lb  | Yes                | FAA-PMA            |
| SAFE 528 | 22-31 Vdc            | 400 mA nominal<br>(550 mA startup)   | 5.13" x 6.77" x 2.1"  | 1.23 lb | Yes                | FAA-PMA<br>Pending |
| SAFE 128 | 22-31 Vdc            | 100 mA nominal<br>(,.250 mA startup) | 2.36" x 2.87" x 1.44" | .25 lb  | Yes                | FAA-PMA            |





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