



## AVIONICS MODULES

**Lighted panels and now the systems behind them.  
Spectralux just took you to the next level.**

For over 30 years, you've turned to us for lightplates, keyboards, lighting expertise, and more. But we've grown. We now design, build, test, and maintain the systems that go behind those products. And we do it very efficiently. The industry is changing rapidly, and Spectralux is responding – just as we always have.

Your idea. We make it happen. Working to RTCA DO-160 and RTCA DO-178, we design and build digital data control management systems, complex circuit card assemblies, mechanical enclosures, and thermally efficient packaging.

Best of all, we focus on space-efficient designs that fit the real-world needs of modern aircraft cockpits. To ensure responsive service after the product has shipped, we provide 24/7 AOG support and operate a FAR-145 certified repair station. If you wish, we can even manage the entire product life cycle.

**More than lighting the way. Building the way.**



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## AVIONICS MODULES

### HARDWARE

- Meets RTCA DO-160
- Experienced with microprocessor and DSP chips from major manufacturers including Motorola, Intel, Texas Instruments, and National Semiconductor
- Digital data interfaces via RS-232, RS-822, ARINC 429, RS-485, I2C
- Datalink CMU per ARINC 724B
- Multi-Function Control Displays per ARINC 739
- Display integration
- Ethernet

### SOFTWARE

- Per RTCA DO-178
- RTOS/embedded platforms (Windows, Linux, ATI Nucleus, etc.)
- Object Oriented design with UML

### Languages

- C
- C++
- Assembly languages
- Fortran and Pascal

### Protocols

- ARINC 750
- ARINC 724B
- ARINC 739
- ARINC 619
- ARINC 740
- ARINC 744

### LIGHTING

- LED
- Incandescent
- Sunlight readable
- Night vision compliant

### TESTING

- RF
- ESS
- Custom ATE rack design and development

### CERTIFICATIONS AND APPROVALS

- ARINC AQP
- AS9100
- FAR-145
- TSO
- PMA

