

Product showcase

Emergency lighting

The Wireless Emergency Primary Power System from **STG Aerospace** features built-in monitoring and diagnostic capability for managing and powering emergency lighting systems. It comprises a series of nonrechargeable battery modules that replace conventional NiCad battery/charger packs. It also removes the need for a daily visual inspection of the cabin emergency lights by incorporating wireless status monitoring that allows interrogation of the battery modules, control circuitry, and lighting systems attached to each battery and transmitting the data wirelessly to a diagnostic panel situated near the cockpit. This enables the cabin crew to test the entire emergency lighting system in less than 10 seconds.



Thermo/fluid simulation

Flowmaster's V7

Aerospace R1 thermo/fluid system simulation software improves the way organizations implement the design and simulation of systems throughout their development process. This release improves the modeling of fuel, hydraulic, and environmental control systems. It incorporates a catalog of industry-tailored components and enables users to build and customize their own component catalogs. Firms can integrate system simulation software within their existing CAE tools, providing an integrated simulation approach and a robust core for fluid system design processes. Security and accessibility controls ensure that simulation data and component models can be safely shared across the organization and supply chain.



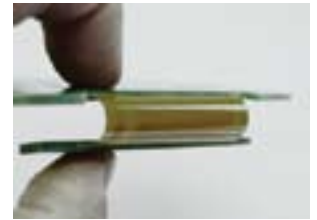
Enhanced vision system

The EVS-100 from **Forward.Vision** uses the latest enhanced vision system technology developed for the business-jet market, which is repackaged and made available for general aviation. The system weighs less than 1.5 lb, is sunlight safe, and is upgradable as the technology continues to improve. It can be integrated with glass-panel LCD displays and is much smaller than the previous system. It can mount as an antenna, on a fuselage, or behind a prop. The system is based on a long-wave IR sensor and features digital zoom.



Multilayer capability

The Advanced Dielectric Division of **Taconic** features products that offer low loss and high reliability for conventional and multilayer RF and high-speed digital board fabrication. The firm's TacPreg prepregs, constructed with BT epoxy/woven fiberglass/PTFE components, offer reduced electrical loss and ease of fabrication for high-speed digital and RF applications. These dimensionally stable laminates, available with a dielectric constant of 3.0 to 3.5, enable production of 20-plus layer boards at FR-4 laminating temperatures and pressures. The firm's HyRelex thin, flexible interconnect materials offer favorable thermal, mechanical, electrical, and moisture resistant properties for multilayer, double-sided, and rigid flex circuits. Their low dissipation factor, good peel strength, and smooth surface profile are suited for applications involving high frequencies, high temperatures, and harsh environments.



Remote-control circuit breaker

E-T-A Circuit Breakers' E-T-A 4930

is a remotely controlled single-pole circuit breaker that is approved to MIL-PRF-83383 for the protection of aircraft electrical systems and other high-performance applications. Low-current remote switching is achieved via a conventional manually operated aircraft-style thermal circuit breaker such as the types 4120 or 483; thus the 4930 can be placed close to the system it is protecting and wiring harnesses, and weight can be significantly reduced. The unit uses an integral bi-stable linear motor to switch the contacts. Its on/off status synchronizes with the 4120/483 circuit breaker, matching the status of that controlling circuit breaker.



IR thermometers

WIKA's IR thermometers allow temperature measurement from a distance without contacting the object to be measured. The handheld IR pyrometers measure hot, hard-to-reach, or moving parts. An intrinsically safe version is both Canadian Standards Agency and Factory Mutual approved. The user-friendly devices feature enhanced optics and accurate readings from -32 to +760°C. All models provide °C or °F selectable temperature, laser-point sighting, and large display.

