

AVIONICS

Precision, Safety, and Innovation – Avionics Leads the Way

About

The Avionics vertical works as the nerve center of every product and aircraft integration, ensuring seamless operation of system as per desired logic and user requirements.

Our integration strategies are meticulously customized to match weapon power requirements with the aircraft's available power sources, while our adaptive safety logics bridge compatibility gaps between Non-compliant MIL-STD-1760 Russian/Western aircraft and MIL-STD-1760-compliant Smart weapons. With deep expertise in decoding and exchange of communication protocols like MIL-1553, ARINC-429, Ethernet, and Wi-Fi, we design, develop and manufacture mission-critical Avionics Line Replaceable Units (LRUs) in compliance with Indian Military Certification Standards (IMTAR-21), adaptable to foreign standards as per diverse customer needs.

We prioritize aircraft and weapon safety, incorporating robust interlocks for redundancy and to prevent system failures, thereby increasing system reliability. All our Avionics LRUs undergo rigorous qualification to meet MIL-STD-810, MIL-STD-461, MIL-STD-704, JS5555 and other stringent military standards, while our avionics harnesses are manufactured as per IPC-WHMA-A-620 and validated through extensive tests complying to MIL-DTL-3885 and MIL-STD-202, setting a high benchmark for quality and reliability. Our well-defined avionics working process and documentation follows AS9100 standards, which aligns with IMTAR-21 to ensure impeccable designs.

With five of our Avionics products already having Type Approval from CEMILAC, we continue to push the boundaries of innovation. To provide an end-to-end solution, we also deliver dedicated testers alongside our Avionics products, ensuring seamless integration and operational excellence in aerospace and defense applications.