

Creative  
Interconnect  
Solutions

# Your HMI Partner



→ **Fully integrated front panels and control panels**

From specification to qualification, for mission-critical environments.

## As a trusted HMI partner, we design and manufacture fully integrated control panels for aerospace and defence applications.

From front panel design to embedded electronics, software and qualification, we provide end-to-end, mission-critical solutions tailored to the most demanding environments.

Our fully in-house approach ensures performance, reliability and compliance with aeronautical standards, from prototype development to serial production.

### SYSTEM OVERVIEW

- Fully integrated HMI control panels for aerospace and defence
- Mission-critical architectures, from prototype to serial production

### FRONT PANEL DESIGN

- Mechanical and ergonomic design for harsh environments
- Backlighting and marking for day / night operation
- Optical performance control (luminance, contrast, homogeneity)
- NVIS-compatible, fully customized front panels

### HMI INTERFACES

- Pushbuttons and rotary switches
- Monostable and bistable technologies
- Reliable tactile feedback for critical operations

### EMBEDDED ELECTRONICS

- PCBA design, routing and in-house functional validation
- Signal acquisition, processing and I/O management
- High-reliability electronics for harsh environments

### FPGA & SOFTWARE

- FPGA development
- Electronic board design and verification
- Custom software: Embedded Linux or real-time OS

### INTEGRATION & QUALIFICATION

- Complete in-house manufacturing and assembly
- Functional, environmental and qualification testing
- Long-term industrial support

### CERTIFIED CAPABILITIES

- PART 21G & PART 145 approvals
- DO-254 and DO-178 expertise
- Designed for DO-160 / MIL-STD compliance
- ITAR-Free solutions for international programs

### FULLY INTEGRATED SOLUTION

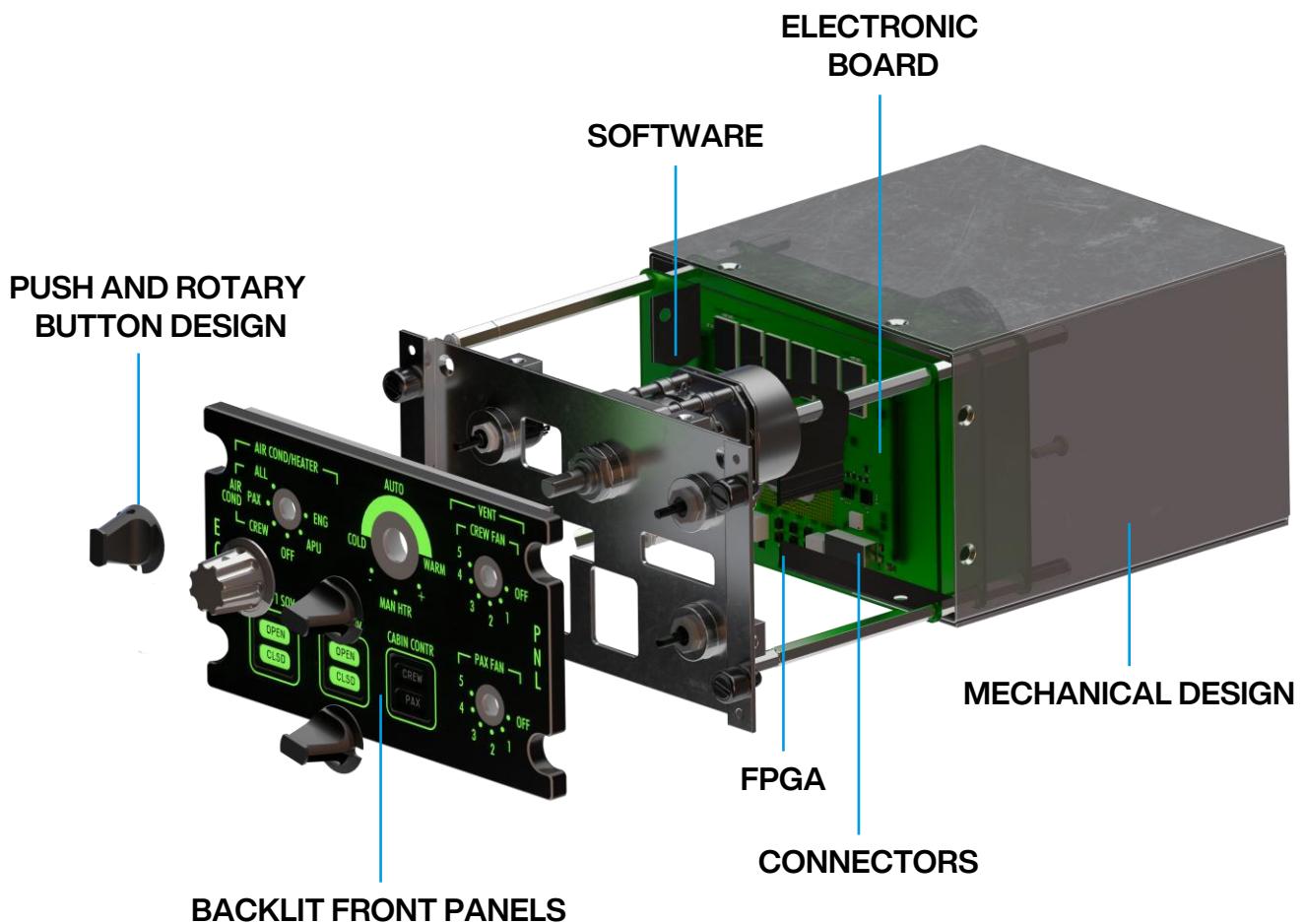
- Front panel, electronics and software in one qualified system
- Robust HMI solutions for mission-critical environments

## SPECIFICATIONS

**FPGA** : Development of IP blocks or complete solutions for real-time processing.

**Electronic Boards** : Design and verification of electronic boards to ensure optimal performance and reliability.

**Software** : Custom software development based on Embedded Linux or real-time operating systems, depending on project requirements.



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