



Control Panel Assemblies

Flight Deck Controls



Custom Solutions for Control Panel Assemblies

IDD has expanded into control panel assemblies as our customers have looked for ways to reduce costs and improve lead-times. We provide innovative solutions for our customers' demanding control panel assembly requirements. IDD's solutions include complete control panel assemblies for both civil and military applications. We specialize in rapid prototyping, development of new flight decks as well as single control applications with automated processes.

IDD Aerospace is a manufacturer of illuminated products for commercial and military flight decks. We are based in Redmond, Washington, USA, and our primary products include lightplates, control panel assemblies and integrated switching panels.





Capabilities

IDD engineers use 3D modeling and finite element analysis to design and develop a range of functionality into our panels and control panel assemblies from electro-mechanical designs to digital interface specifications. Our core capabilities include development, test and documentation to meet DO-178B and DO-254 industry standards.

IDD can help by providing complete design and manufacturing solutions for Control Panel avionics at the LRU and subsystems levels. Whether you require basic electro-mechanical control panels or “digital” control panels IDD provides superior products so that you can focus on the system level.

Microprocessor-based systems

- Programmable Logic Devices (PLDs)
- Field Programmable Gate Arrays (FPGAs)
- Analog circuit design and simulation
- Power conversion
- High Density PCB design (BGA, surface mount)

Embedded software systems

- C, C++, WinCE
- 8, 16, 32, and 64 bit micro-controllers
- Development to DO-178B, DO-254

Industry standard busses and protocols

- Ethernet, ARINC 429, CAN bus, I2C bus, FTP, ARINC 422, MIL-STD 1553



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