

HMI FOR AIRCRAFT INTERIORS

ENHANCING THE PASSENGER EXPERIENCE



ENHANCING THE PASSENGER EXPERIENCE THROUGH HMI TECHNOLOGY

Airlines are constantly challenged to enhance the passenger experience through technology, especially in seat controls, signage and ambience. TT Electronics aircraft interior solutions are driven by light-quide technology providing high impact cabin interfaces and illumination, combining capacitive touch, secret-until-lit and mood lighting solutions.

For over 30 years aircraft interior partners have trusted TT. Since we provided passenger control units (PCUs) for the world's first lie-flat beds that debuted in the 1990s we have worked with our aircraft interior partners to develop innovative and sustainable solutions. Our designs and certified products are currently flying with the world's major airlines cabins, including business and first class.

Our solutions incorporate the latest HMI technologies including capacitive switch technology, back-lit capacitive switch controls, thin-film backlighting using LED illumination and traditional membrane switches.

Our in-house design and engineering team can work with you to develop innovative and functional designs. Fully managed from concept to delivery, we provide full certification and qualification testing.



FULLY MANAGED FROM CONCEPT TO DELIVERY

INNOVATIVE & FUNCTIONAL **DESIGNS**

TECHNOLOGY

- Mechanical Plastic, Metal or Silicone **Rubbers Keys and Housing**
- PCAP and Membrane
- High Quality Backlighting
- Homogenous, RGB or RGBW, PWM Controlled

CONNECTIVITY

- CanBus, RS485, I/O
- Pigtail or In-Line Connectors



CERTIFICATION

- Fully qualifiable LRU
- D0160, D0178 Level E, Boeing and Airbus



DESIGN AND PRODUCTION

AS 9100 D, ISO 9001, ISO 14001, SC21



PASSENGER CONTROL UNITS (PCUS)

Passenger control units (PCUs) are designed to the customer's requirement using proven interface solutions including traditional membrane keypads, PCAP and touchscreen panels, capacitive switching and our patented backlighting technology which is lightweight and space-saving making it ideal for control panel applications on aircraft.

We provide fully interactive electronic panels for first and business class seating as well as passenger information panels throughout the aircraft including innovative switch solutions for cabin window shades.

CONTROL PANELS

FULLY INTERACTIVE



CABIN

SIGNAGE

including lavatories and galley ways.

We design and manufacture a range of cabin signage solutions incorporating

technology deliver clear information to passengers and crew. LED indicators or

information panels with additional features for specific areas of the aircraft

information signs inform passengers and flight attendants to return to their seats, fasten their seat belts or advise 'lavatory occupied' for example. We manufacture

High quality signage using our patented low-profile thin-film backlighting

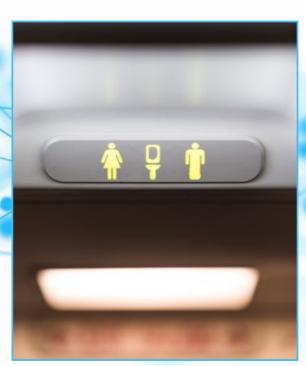
simple white-only LED lighting to advanced colour shifting technology, enhancing

the passenger experience and providing energy efficient solutions for the aircraft.

SOLUTIONS

- Return to Seat (RTS)
- Attendant Call Button (ACB)
- Illuminated Seat Indicators





CABIN MOOD LIGHTING

Designed to create an enhanced passenger ambience and in-flight experience, LED based mood lighting is a fundamental design element that can be personalized through colour, intensity, zoning and transitions.

Our lightweight and highly flexible mood lighting solutions incorporate single colour and RGB mood lighting for aircraft cabins and communications with the ECU controlled with a variety of interfaces.



APPLICATIONS

- RSIP Panels
- Accent Lights
- Flexible & Rigid Mood lights
- Stowage Lights
- Galley Lights
- Fridge Lights
- Mirror Lights
- Logo Lighting

FLEXIBLE LIGHT STRIP

Flexible LED lighting strips by TT Electronics provide a power efficient, robust and certifiable solution in white or RGB multicoloured options that bend around a 75mm radius. The perfect blend of form and function for aircraft interior mood lighting and signage solutions.

FEATURES

- ✓ Single colour or RGB-W
- Complex curves achieved by tooling arc shaped strips
- Weight and power saving
- Low maintenance
- Minimum bend radius 50mm
- Tested for fire (smoke density and toxicity), temperature and ESD immunity
- ✓ Interface RS485 CanBus

GALLEY INTERFACES

We provide enhanced control panel and illumination solutions for aircraft galleys.

Our thin film backlighting and capacitive switching technologies deliver simple, clean and functional designs for galley and business class bar areas including refreshment makers, bar counters and cocktail tables.







ABOUT TT ELECTRONICS PLC

TT Electronics is a global provider of engineered electronics for performance critical applications. TT solves technology challenges for a sustainable world. TT benefits from enduring megatrends in structurally high-growth markets including healthcare, aerospace, defence, electrification and automation. TT invests in R&D to create designed-in products where reliability is mission critical. Products designed and manufactured include sensors, power management and connectivity solutions. TT has design and manufacturing facilities in the UK, North America, Sweden and Asia.

For more information about TT Electronics, visit www.ttelectronics.com



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