

Power Conditioning Solutions

Implementing tablet-based Electronic Flight Bags (EFB) in the cockpit requires a power source that protects both the airframe and the electronic flight bag itself. Like most tablets, the Apple® iPad® uses a lithium-ion battery technology that, when incorrectly charged, can lead to catastrophic secondary failure modes for pilots to contend with including fire, explosion and the release of overcoming toxic fumes (to name a few). The FAA has specific requirements for powering these devices.

Power Conditioning Module (p/n 1044-5002-00)

The Power Conditioning Module (PCM) provides continuously filtered and monitored power to your iPad. The PCM is designed to be integrated directly into the flyTab mounting system, providing an integrated solution to mount and power your iPad based EFBs and delivers:

- Clean power for Apple iPad
- Exceptional power-to-weight ratio, weighing less than 0.5 lbs
- High efficiency power conditioning technology
- Passive cooling (silent operation)
- Aerospace grade system interconnects
- MIL-STD-24308 I/O connector
- EMI and RMI compliance - Audio and Radio Frequency (RF) filtering

The flyTab suite of products and solutions is the only Made for iPad Apple approved aviation grade power solution FAA-PMA certified to provide cockpit EFB power and mounting solutions specifically designed for iPad EFB deployments.



www.flyTab.aero

Avionics Systems & Integration Group

The flyTab suite of products and associated trademarks are developed and owned by the Avionics & Systems Integration Group (ASIG), the industry pioneer of analogue to digital upgrades for contemporary and classic aircraft.

Services

- Integration Engineering
- Installation Kit Manufacturing
- Installation of COM/NAV, Situational Awareness and Air Traffic Management (CNS/ATM)
- Maintenance, Modification and Repair
- Certification & Program Management

We also perform design research and development of emerging technologies in support of aircraft operations, maintenance, modification and repair activities for civil, commercial, government and foreign flight departments.

Mission

ASIG increases airframe values while safely maximizing the inservice life span of contemporary and classic aircraft through retrofit and standardization while lessening the cost of operations and maintenance for our customers.

About

- U.S. Federal Aviation Administration Parts Manufacturing Approval (FAA-PMA) Number PQ1052SW.
- US DoD Federal Contractor
- Small Emerging Business, Veteran Owned Small Business
- Service Disabled Veteran Owned Business
- CAGE: 4BYP5

Contact

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PCM Specifications

Weight

- <0.25 lbs (0.2 kg) nominal

Size

- 4.38" L x 2.47" W x 1.00" H

Power

- Input: 28 VDC (22 VDC - 30 VDC / 27.5 VDC Nominal)
- Output: 5.1VDC, 2.4A total

Connection Options ¹

- Apple 30-Pin Connector
- Apple Lightning³ Connector

Specifications

- Environmental: RTCA/DO-160F
- Categories:
[(A2)(D1)]BAD[S(L,M,B,C)]XXXXXXXX
[(A)(Z)]BAZ[RR]M[XXC3X]XXAX
 - Operating Temperature: -40° to +70°C
 - Operating Altitude: Up to 42,000 ft
 - Storage Temperature: -55° to +85°C
 - In-Flight loss of Cooling: Equipment can run indefinitely with no cooling
 - MIL-HDBK-217 MTBF: greater than 20,000 hours

¹ Installation dependent

² Apple and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.

³ Lightning is a trademark of Apple Inc.

