

## From The Cockpit To Your iPad® GDC64 Tablet Aircraft Interface Unit (TAIU)



- The GDC64 TAIU is a type design approved product, certified for use on Part 25 business jets and air transport category aircraft.
- Approved for connection to the aircraft's 28VDC buss.
- FAA and Apple® approved charging circuitry for safe reliable power operation.
- Four ARINC 429 input ports, one each RS-232 port and eight each Discretes.
- Provides a wealth of information to an Apple® iPad, including navigation and air data information.
- Multitude of cockpit uses; from weight and balance calculators to aeronautical charts. The use of third party apps, opens the door for charts, plates, weather, weight and balance, performance, ADS-B and other uses (dependent on application availability).
- Complements potential requirements making the iPad an even more valuable tool for flight deck applications.
- Serves as a buffer between approved aircraft systems and the iPad.
- Wired connection provides safe and approved power and aircraft interface leaving Wi-Fi connectivity available for other uses.
- Using the GDC64 iPad program the GDC64 unit can be used as an ARINC Bus tester. One can view compatible ARINC data in real time or log data on up to four busses and either play the file back or email the data where it can be evaluated.
- Interfaces with FreeFlight Systems family of ADS-B Receivers and SBAS/GPS sensors, which come in a variety of configurations for business and commercial jet applications.

*Apple computers, computer software, computer peripherals, etc.  
iPad is a registered trademark of Apple Inc.  
iPad mobile digital device*

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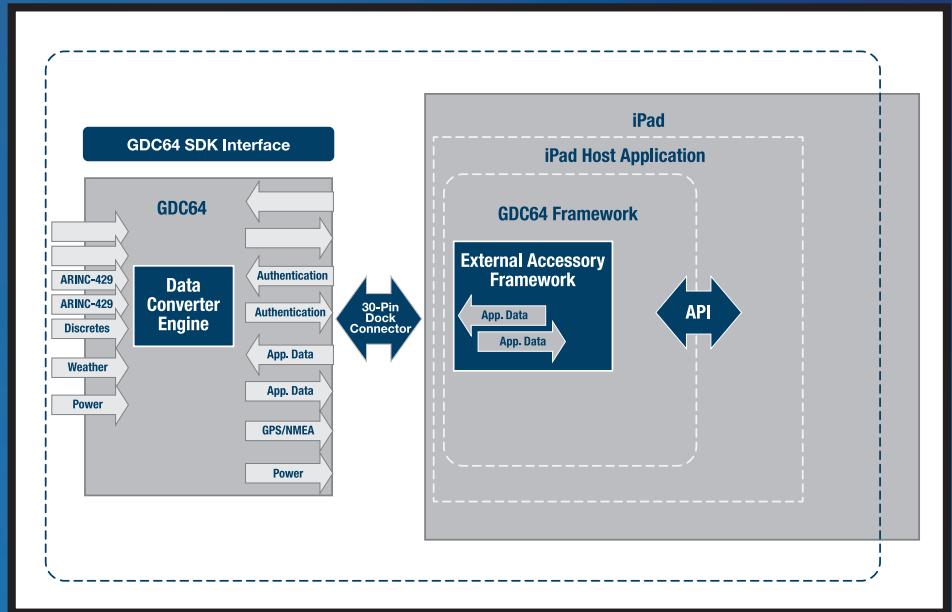
## Typical features of GDC64:

- Aircraft position data
- Hard wired instead of Wi-Fi
- Part 25 approved
- Safe battery charging for iPad

The GDC64 power supply is designed to provide the necessary protection for the lithium-ion battery in a Class 2 tablet. The ARINC 429 inputs isolate the tablet from the critical aircraft data systems while making this useful data available to software applications running on the iPad.

## Operational aspects

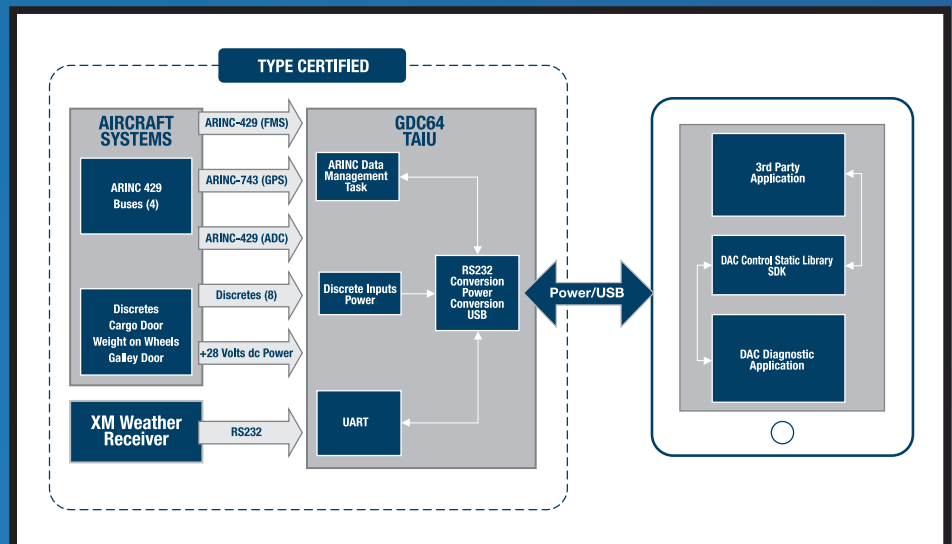
- All GDC64's will require a maintenance action for initial setup at initial installation or after part replacement. After that, no pilot action is required.
- Accepts a variety of inputs
  - Four ARINC 429 inputs from different sources.
  - Eight discrete inputs from different sources.
  - Serial data from WX receiver or other RS-232 source  
*(app required - GDC-64WX Weather App available on iTunes store).*
- Aircraft power keeps iPad fully charged per Approved Apple charging policy.



GDC64 System Level Diagram

## Software Development Kit

A software development kit (SDK) is available for those interested in developing custom software to interface between the GDC64 hardware and an iPad. The GDC64 SDK is a software framework providing an application programming interface. The SDK controls all interaction between an iPad host application and the GDC64 which includes real time label setup, parsing, filtering, and discrete input. The framework consists of a static library as a compiled binary that will allow seamless integration with an iPad host application allowing complete control of the GDC64 via the framework's API.



Example GDC64 Aircraft Installation

## Apple MFi licensee

DAC International is an approved MFi licensee with all the necessary software licenses in place which allows the installation of custom Apple IC chips in the GDC64. These custom Apple ICs provide the GDC64 an authorized means of accessing the iPad's wired USB ports.

## Included with the GDC64:

GDC64 unit, LRU to Bulkhead Installation Kit and Bulkhead to iPad Installation Kit *(all items priced separately).*