

CompactPCI Test Fixture

The CompactPCI Test Fixture is a debug and test suite designed specifically for the development, integration and test of a customer developed CompactPCI card. The CompactPCI Test Fixture is used to verify power, interfaces, and all IO to the device under test. The CompactPCI Test Fixture also provides powerful processing platforms and integrated displays that aid the customer in developing and debugging their product.

The CompactPCI Test Fixture features a series of indicator LEDs and 7-segment displays that provide convenient user feedback during test and debug. Toggle switches and pushbuttons are provided to simulate inputs to the Device Under Test. For more capability a microcontroller is provided for programmable control of all the test fixtures interfaces.

To simulate sophisticated system conditions the CompactPCI Test Fixture integrates a quad-core P2041 Processor. Custom software can be written on this processor to fully simulate any conditions the Device Under Test may see.



Certifications

ISO 9001:2008

ITAR Registered

FDA Registered

SAM Registered

Joint Certification
Program

FAA Registered

Nuclear Standards
Compliant

Key Features

- Totally self contained including power supplies and control processor.
- Test and Verification of high speed PCIe interface
- Both manual and software controllable I/O interfaces including toggle switches and LED and 7-segment displays
- Imbedded P2041 processor card for custom control and testing of the CompactPCI Device Under Test
- Heat management of Device Under Test
- JTAG interface for application development
- SD Card data storage
- Ethernet and serial interfaces for integration into automated test systems

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ACDi EMS Services - Custom Test Fixtures for Development and Production

ACDi designed a Test Fixture for a government agency for the development, integration, and test of a compact micro-ATX board. ACDi provided end-to-end value added services tailored to this customer's requirements. These included:

Requirements Definition – ACDi worked with the customer to collect and document specifications and requirements prior to beginning product design. This ensured an efficient and effective development process.

Engineering Design – ACDi and its partners comprised a professional engineering team that was capable of providing mechanical, electrical, software and manufacturing engineering to ensure the Fixture was designed for testability. The team worked closely with the customer at all phases of the program to make sure the product met the customer's expectations.

Test Fixture Fabrication – ACDi provided small volume prototypes for test and verification. ACDi later fulfilled low volume production quantities (< 25).

Supply Chain– ACDi provided 100 % supply chain management services and sourced all board, box, cable, and raw level materials.

Intellectual Property – ACDi provided the customer with configuration managed documentation

Test and Quality– ACDi performed tests on 100% of the units for validation prior to shipment.



Quality Policy

To meet our customer's requirements and exceed their expectations with personalized service and the highest level of customer responsiveness, while continually improving our processes, capabilities, and performance.

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