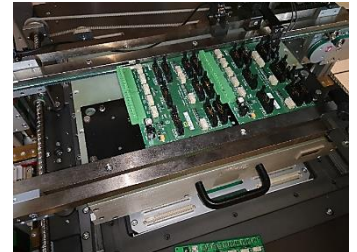


# Keysight Automated InLine FlexiCore System

The X-in-One Platform for Manufacturing Test



## Overview

The Keysight FlexiCore System is an innovative approach to bring the best inline automation and test into your manufacturing test solution.

With ever-increasing cost pressures and demand for better product quality, the Keysight FlexiCore System offers a flexible architecture that allows you to maximize test applications in a small form factor with full SMEMA and IPC-CFX conforming inline automation.

## X-in-One Use Models

Some equipment designs are useful for Functional Test. Others are tailored for ICT. And others still are targeted for device flashing. FlexiCore is designed to be any of these, in any combination. Or maybe something else, like a dedicated LED color and intensity inspection station.

In a world heavily investing in the use of panelized boards, Keysight Technologies announces the X-in-One Keysight FlexiCore Platform. Designed to yield maximum leverage in panelized PCB assembly, the FlexiCore platform delivers increased volume capacity, increased line velocity per test system, better line utilization, improved product mix management and fewer line changeovers in an X-in-One multi-use architecture. Here are a few examples:

- Functional Test - As an inline automated-handling PXI/LXI/GPIB functional tester
- Flashing Station - Flash dozens of devices in ~ the same time as one device
- Parallel ICT Test - Test up to 4 PCBs at the same time for maximum volume & touchless test
- LED Test - Verify up to 128 LED's color & intensity in parallel
- Combined uses - Use any of the above strategies individually or in combination!
- Other Uses - What test function would you like to automate?



### The X-in-One FlexiCore supports

- Multiple functional test standards like PXI, LXI and GPIB
- Multiple software environments – pick your favorite, Keysight or something else
- A Keysight multi-core ICT engine
- Multiple flashing solutions from Keysight's Global Solution Partners

The FlexiCore is easily configurable to support different multi-board test environment. A large multi-board panel may be tested sequentially by combining the pin cards into a single large module or it can also be separated into maximum of four smaller groups with each group tested by a standalone module in parallel. Being able to automatically combine or separate the test modules according to the test program loaded gives it the utmost flexibility in managing the manufacturing capacity. The system chassis offers extra room for functional instruments to be installed and can be populated with up to 2,560 test pins, for DUT size off up to 480mm x 320mm.

The backbone SCPI command environment provides full control to handler operation allowing users to run their own choice of test executives and sequencers. In addition, Keysight has developed the In-Circuit Parallel Test (ICPT) application to manage parallel test operations and handler setups automatically, without the need of any physical hardware configuration change.

## Standard Instrument Rack for Application Use

The Flexicore comes with a standard 19-inch instrumentation rack at the back of the system. Users may choose to install different test instruments as required by their test applications and interface them to the test fixture above. Typical instrument examples might be:

- Waveform Generator
- DUT power supply
- Frequency Counter
- Digital Multimeter

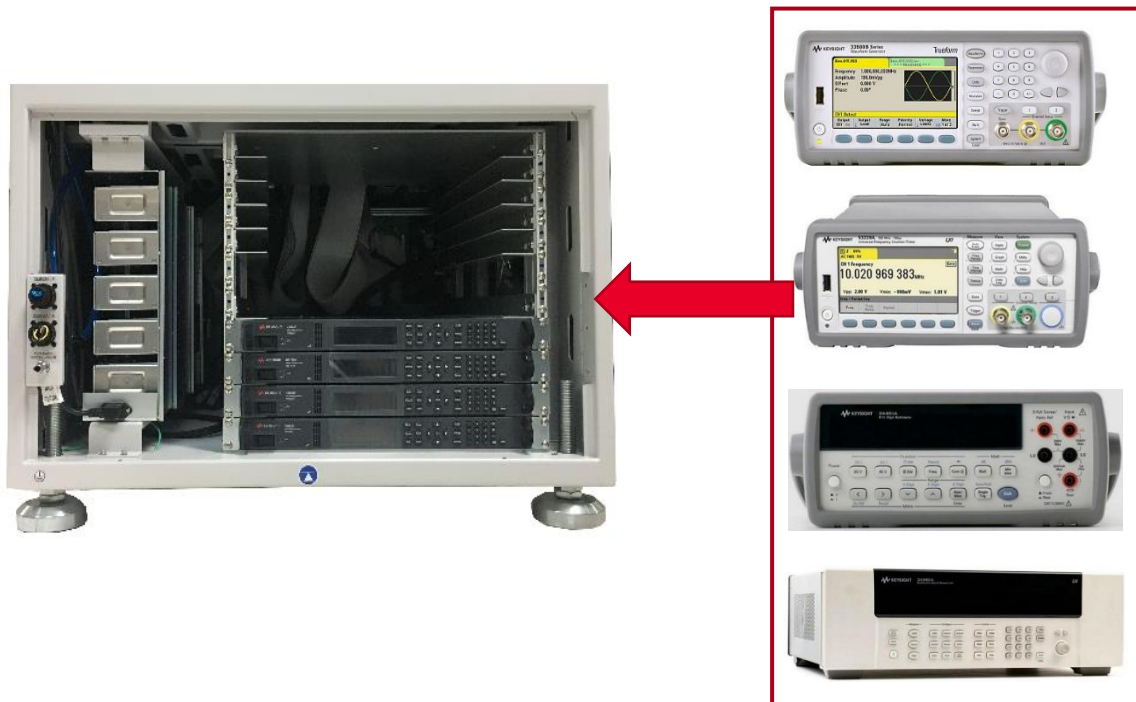


Figure 1: Four quad-output DUT supplies racked in the FlexiCore System

The Keysight FlexiCore's versatile instrumentation rack allows external equipment, such as PXI instruments and Power Supplies, to be added to power up devices under test (Figure 1).

For more information, please [click here](#)

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