



Onboard Programming Solutions

Key Features

- Programs ISP and Flash devices using the tester hardware
- Supports most popular PLD components
- Increased throughput and flexibility when used with GenRad's Deep Serial Memory (DSM) option
- Supports the ability to program board specific data into Flash devices
- Reduced inventory costs
- Reduced defects as a result of less handling
- Simplified manufacturing and ECO flow
- Increased product reliability and cost savings due to the elimination of sockets

Overview

Onboard programmable devices such as in-system programmable (ISP) logic and Flash devices provide printed circuit board manufacturers a unique opportunity to reduce manufacturing costs while improving product quality. By utilizing GenRad's Onboard Programming solutions on the GR TestStation™ family of production test systems, you can make this opportunity a reality.

Simplified Process

The traditional process for programming ISP and Flash devices can be inventory-intensive. This process requires that both programmed and unprogrammed devices are to be kept in inventory. Yet, it can also be labor intensive due to the extra steps of using a standalone programming solution.

However, by programming the devices as part of the in-circuit test process, only unprogrammed devices are kept in inventory, eliminating the need to store and track multiple part numbers. Unprogrammed, single-part number devices are kitted and assembled onto the PCB and programmed during test.

The optional Deep Serial Memory (DSM) allows for separation of programming data and the test program. This method increases throughput and reduces the size of the test program. Changes to the programmable data can be applied to the manufacturing line in real-



