

MultiWriter *pps*

Production Programming System



The world's first parts-on-the-board gang programming system is the high throughput solution for multiple programmable parts on circuit boards and panels.

The MultiWriter[†] pps on-board gang programming system uses patented simultaneous programming technology to program up to 384 chips at one time, of up to 16 different types, typically in seconds instead of the minutes required by conventional programmers.



Compared to other part programming solutions, MultiWriter pps delivers significant speed and cost advantages over conventional in-circuit tester-based programmers when more than four parts already mounted on circuit boards must be programmed in a single pass, making it especially effective for multi-board panels.

MultiWriter pps is optimized for applications requiring programming of at least 4 parts per board or multi-board panel.

The MultiWriter pps On-board Gang Programming System includes:

- MultiWriter controller
- Integrated Windows PC, keyboard, mouse and display
- Lambda 0-60V, 12.5A programmable power supply
- GenRad 227X-compatible fixture interface
- All the above integrated into system console with automated vacuum control
- MultiWriter system control software with optional user Data Protection Encryption
- Powerful SPC tools for debugging and real-time production monitoring



Fully Tested

Advantages of On-board Part Programming with the MultiWriter pps

- Program CPLDs (Complex Programmable Logic Devices) such as serial flash memories and microcontrollers after these parts have been mounted on the printed circuit board.
- Eliminates the requirement to track different versions of pre-programmed parts, simplifying inventory management and eliminating rework (reprogramming) costs.
- Unique part and board-specific data may be inserted into the main programming code 'on-the-fly' with the main program code, eliminating an additional downstream programming step.
- In medium to high volume production environments on-board programming costs significantly less than offline pre-programming by eliminating the separate chip-handling step and reducing inventory costs. Less handling also means fewer part failures.
- An optional data protection encryption software package is available that makes the contents of the device file not readable without the encryption key. This protection system also prevents production personnel from modifying the device data.

Abbreviated Specifications

Features

- Simultaneous programming of up to 384 parts, of up to 16 different types or families at once
- Programming unique data (date code, serial number, calibration measurements, etc.) on a per-device basis
- High throughput via fast programming and verification data rates with excellent signal quality
- Universal programming capability for all device families supported by an extensive protocol library
- Buffer boards mounted in the fixture eliminate cabling problems and ground return issues for noise-minimized reliability
- Industry standard bed-of-nails fixturing platform supports fixture development from multiple, worldwide vendors
- Small system footprint: 29.5x24x41 inches (75x61x104 cm) with rack space available for future add-ons

Power-on Source

- Lambda 0-60V, 12.5A programmable power supply plus extra power supply option
- Supports multiple power supply outputs
- Programmable voltage and current
- Output disable for operator safety

Vacuum Connection

- Typical test heads require 20-30 CFM providing 18-25 inches of Mercury (61-85 kPa)
- 1¼ inch I.D. hose or ¾ inch NPT connection

System Software

- Visual Programming Test Executive runs in Windows OS environment
- Includes complete on-line help file
- Display operator instructions in local language
- Major Visual Test System Executive elements:
 - Device Programming Supervisor
 - Statistical Process Control Tools
 - Program Generation Tools
 - Program Validation Tools
 - Multi-Board Panel Support

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