



PinPoint Alpha^α and Sigma^Σ

Scalable, affordable circuit card fault finding and identification

Protecting your Investment

Designed from the outset with modularity and scalability in mind, the PinPoint systems deliver the tools and functionality you need today while being able to provide higher performance and capability when it is needed in the future.

The PinPoint Alpha^α and the PinPoint Sigma^Σ protect your investment with their flexible, modular architecture. Additional performance and capability can be added to the standard systems, giving you a method to test even the most challenging circuits.

With a full tailored upgrade path available, you not only protect the investment in your system hardware, but importantly, also in the test programs you will create.

Finding More Faults

No one single test method can provide the coverage required to find faults and eliminate the common 'No Fault Found' issue. The multiple test methods available with PinPoint systems provide a comprehensive and thorough test of the circuit, finding more faults.

- Functional testing from the edge connector
- Functional testing of a single component
- Boundary scan
- Passive and active analog testing
- Mixed-signal functional test
- Vectorless test
- Analog signatures
- Parametric testing

All of these can be combined in a single test flow to deliver outstanding fault detection and identification.

KEY BENEFITS

- Rapid fault detection and identification
- Faults isolated to component level
- Accurate fault identification reducing re-work, saving time, and improving board reliability
- Reduced inventory by enabling rapid repair of boards
- Quick learning curve and program development through easy-to-use graphical software
- Modular upgrades for technical and financial security
- Test Program compatibility across the PinPoint range



Ensuring Safety

Fast test pattern rates up to 25MHz help ensure that digital devices are functionally tested thoroughly so that more faults can be detected and accurately identified.

Digital in-circuit tests on the PinPoint series are designed to be completed within 20 milli-seconds to help ensure the safety of the circuits you are testing. A programmable hardware timer removes the test stimulus at the end of the period so that ICs are protected from extended back-drive currents.

In addition to the digital testing capability, vectorless test methods can be used to check each network for open circuits, shorts circuits, resistive, and capacitive and inductive faults, as well as testing semiconductor junctions.

Flexible, Adaptable and Modular

Both the PinPoint Alpha^α and the PinPoint Sigma^Σ have been designed to provide modular expansion of test resources. The PinPoint Alpha^α has three external slots available for Digital, Universal, and Matrix switching channels and the PinPoint Sigma^Σ has ten configurable external slots available for Digital, Universal, and Matrix routing channels. The systems can be tailored to provide the test resources you require in a cost effective manner and then be expanded to meet any changing requirements when required.

Addressing modern and legacy PCBs, the PinPoint systems offer a compact footprint while being transportable to provide industry leading PCB fault screening, PCB troubleshooting, PCB test, and fault finding wherever needed.

Get Started Today

For additional details, please contact Astronics Test Systems.

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FEATURES

Scalable Architecture and Performance

Available in three-slot (PinPoint Alpha^α) or ten-slot (PinPoint Sigma^Σ) options, choose your system based on your performance needs.

Advanced Functionality

Includes DMM, Arbitrary Waveform Generator, Oscilloscope, Counter-Timer, Shorts Locator, Precision Measurement Module (PMU), LCR Bridge, Analog Signature Analysis, Programmable UUT power supplies – all allowing you to find more faults.

PinPoint Alpha^α Specifications

- Up to 144 dynamic Universal test channels
- Up to 192 Digital test channels
- 5MHz, 10MHz, 15MHz, or 25MHz digital test rate options

PinPoint Sigma^Σ Specifications

- Up to 384 dynamic Universal test channels
- Up to 256 Digital test channels
- 5MHz, 10MHz, 15MHz, or 25MHz digital test rate options

