APPLICATION BRIEF

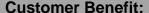
EMBEDDED FUNCTIONAL TEST SYSTEM REFURBISH

Brief Description:

Emerging Technologies, LLC. was called upon to repair and refurbish a pair of existing embedded testers. The existing testers had fallen into disrepair and the original manufacturer of the systems was no longer doing business.

The customer provided two non-functional testers, some of the original microcontroller source code, documentation for the testers, and product samples both working and with known problems.

Emerging Technologies, LLC. started by curing known problems with the testers. This effort included replacing components, specifying new components where original parts were no longer available, and custom fabricating pieces where required. Additionally, some portions of the modified microcontroller code was accommodate correct failure indication supplied known bad product. Finally, a new daughterboard was designed to eliminate a problem area for the testers. The existing design suffered from failure of the DUT interface connectors over time. When it was time to replace the connectors the customer was forced to desolder and remove the bad connectors and solder in replacement connectors. Over time the tester PCB traces became damaged. The new Emerging Technologies designed daughterboard allowed the customer a plug in replacement solution. Additionally, the new daughterboards were supplied with multiple locations for replacement connectors for the customer to replace connectors if desired.



The customer is able to test sub-assemblies, using the Emerging Technologies, LLC. refurbished testers, to verify correct operation prior to assembly into the final product. The refurbished systems provided a significant cost savings over replacing the testers with new test systems.

ET Responsibilities:

- Functional Specification Generation
- ✓ Design / Engineering
- √ Fabrication
- Programming Software
- ✓ Programming Firmware
- ✓ Circuit & PCB Design
 On-Site Commissioning
 Post Commissioning Support
- ✓ Other Refurbish

Technologies:

- Embedded Computers
- ✓ Microcontrollers Visual Software
- ✓ Control Software
 Data Acquisition
 Computer Based Control
 Communications serial
 System Integration
 Other

Special Features:

- ✓ Replaced Damaged Components.
- ✓ Updated Problem Areas of Original Design.
- Design.
 ✓ Verified Operation of Known DUT Problems.
- ✓ Added New Graphic Overlay for Clean Modern Look.

