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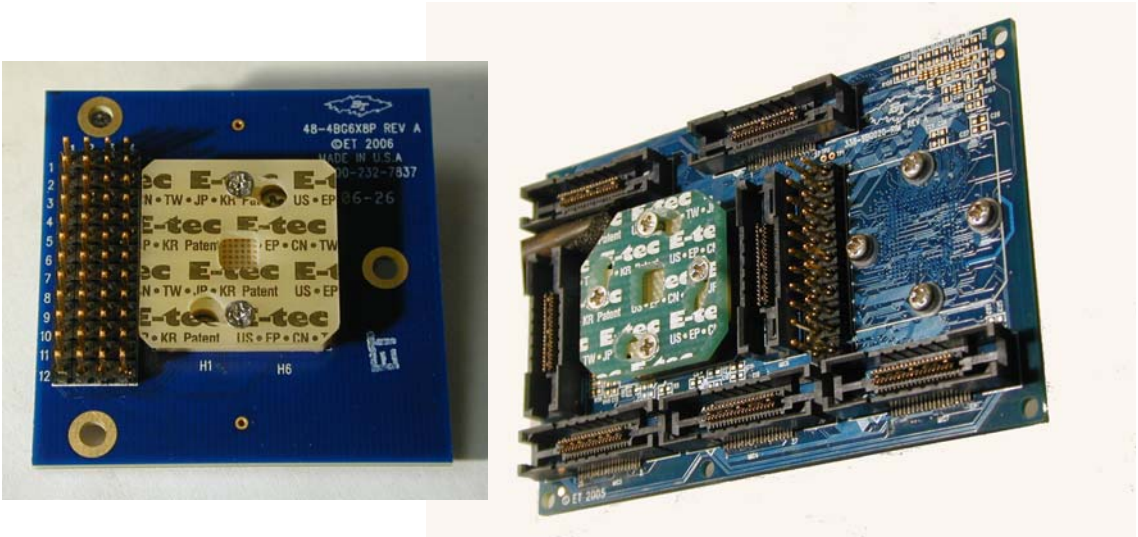
FOR IMMEDIATE RELEASE

EMULATION TECHNOLOGY ANNOUNCES NEW FINE PITCH BGA LOGIC ANALYZER PROBE ADAPTER

The only high-density 0.50mm pitch BGA Bug Katcher® to provide easy signal access.



Generic 48 Ball on 0.75mm Pitch BGA Bug Katcher (left) and Custom 336 Ball on 0.65mm Pitch BGA Bug Katcher (right)

SANTA CLARA, CA, September 25, 2006—Emulation Technology (ET), the world leader in adapters, clips and test accessories for digital design and test, has expanded its broad line of Ball Grid Array (BGA) Logic Analyzer Probe Adapters with the addition of its new 0.50mm, 0.65mm and 0.75mm pitch BGA Bug Katchers. The adapters provide complete signal access of the BGA device during in-system testing and debugging. The fine pitch BGA Bug Katcher's size, capabilities and design make it the only one of its kind. Hardware and software design engineers developing, debugging, programming, qualifying or testing can now use the Bug Katcher for finer-pitched BGA devices.

The Bug Katcher's innovative design allows it to be swapped with a BGA device on the host board – without the use of a soldering station! Once low-speed programming, debugging or testing is complete, simply unscrew and remove the Bug Katcher from the target board and a BGA device can be placed directly in the target board's high-speed BGA socket. A screw-lock lid replaces the Bug Katcher and holds the BGA device in place. Full-speed operation of the BGA device is then achievable, with no impact on signal integrity. Along with its solderless design, the Bug Katcher's low profile and availability in various configurations, including numerous grid patterns, pitches and pin configurations, allows the greatest flexibility and value to the engineer, along with substantial development cost and time savings!

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The Bug Katcher®

"ET understands the challenge of accessing and monitoring signals during test and debug," says Joe Bagliere, President of Emulation Technology. "That's why we built the first Bug Katcher twenty-three years ago, and that's why we continue to create development products that support in-circuit test and debug." ET's 0.5mm, 0.65mm and 0.75mm pitch BGA Bug Katchers are the finest-pitch high-density BGA logic analyzer probe adapters on the market today. ET also has BGA Bug Katchers in 0.80mm, 1.00mm and 1.27mm ball pitches. Bug Katchers for other standard or custom IC packages are available.

Application

Without the adapter, integrating hardware and software for BGA package ICs would be extremely difficult, time consuming and costly. The new logic analyzer probe adapter provides easy and reliable access to all BGA signals while the IC is active in the system. The Bug Katcher consists of a screw-top BGA socket and provides connections from all socket pads to MICTOR or wire-wrap posts, all located the top side of a multi-layer PCB. This allows easy connectivity to various debugging or programming instruments, including logic analyzers, oscilloscopes, frequency counters or meters. The Bug Katcher attaches to the host board via another high-bandwidth screw-top BGA socket soldered or bolted onto the host board. This socket can receive either the Bug Katcher or any BGA device designed for the system. Hence, the engineer need not worry about performance limitations of using a logic analyzer probe adapter. Once low-speed debug or test is complete, the Bug Katcher can easily be removed and replaced with an IC, allowing for full-speed operation. As an added benefit, since the BGA device is socketed, it too can be swapped for another BGA device, allowing the engineer great flexibility in programming, debugging and testing multiple ICs at both low and high speeds.

Features and Benefits:

- Solderless design; only the BGA socket base is soldered or bolted to the target board, allowing for insertion of either a BGA device or the Bug Katcher
- Two-piece design for easy removal and substitution with a BGA device; allows for low-speed debug and programming or high-speed operation without the need for a soldering station
- Low profile; less than ¾" high including test points and sockets
- Can be used with raised or standard SMT BGA sockets on host board to provide clearance for adjacent target board components or to provide the lowest profile, respectively
- MICTOR or gold-plated wire wrap posts provide quick and reliable connections of test cable assemblies, test probes, or wire wraps
- Available in generic (one-to-one), device-specific or custom-routed models
- Pb-free versions available
- Speed project to completion, lower development costs

With the introduction of the first Bug Katcher, ET has built a quality line of logic analyzer probe adapters that include popular package styles such as MLF/QFN, LGA, PGA, HGA, SSOP, TSOP, QFP, DIP, SDIP and PLCC. Emulation Technology's BGA Logic analyzer probe adapters come in 0.80mm, 1.00mm, 1.27mm and now 0.5mm, 0.65mm and 0.75mm ball pitches.

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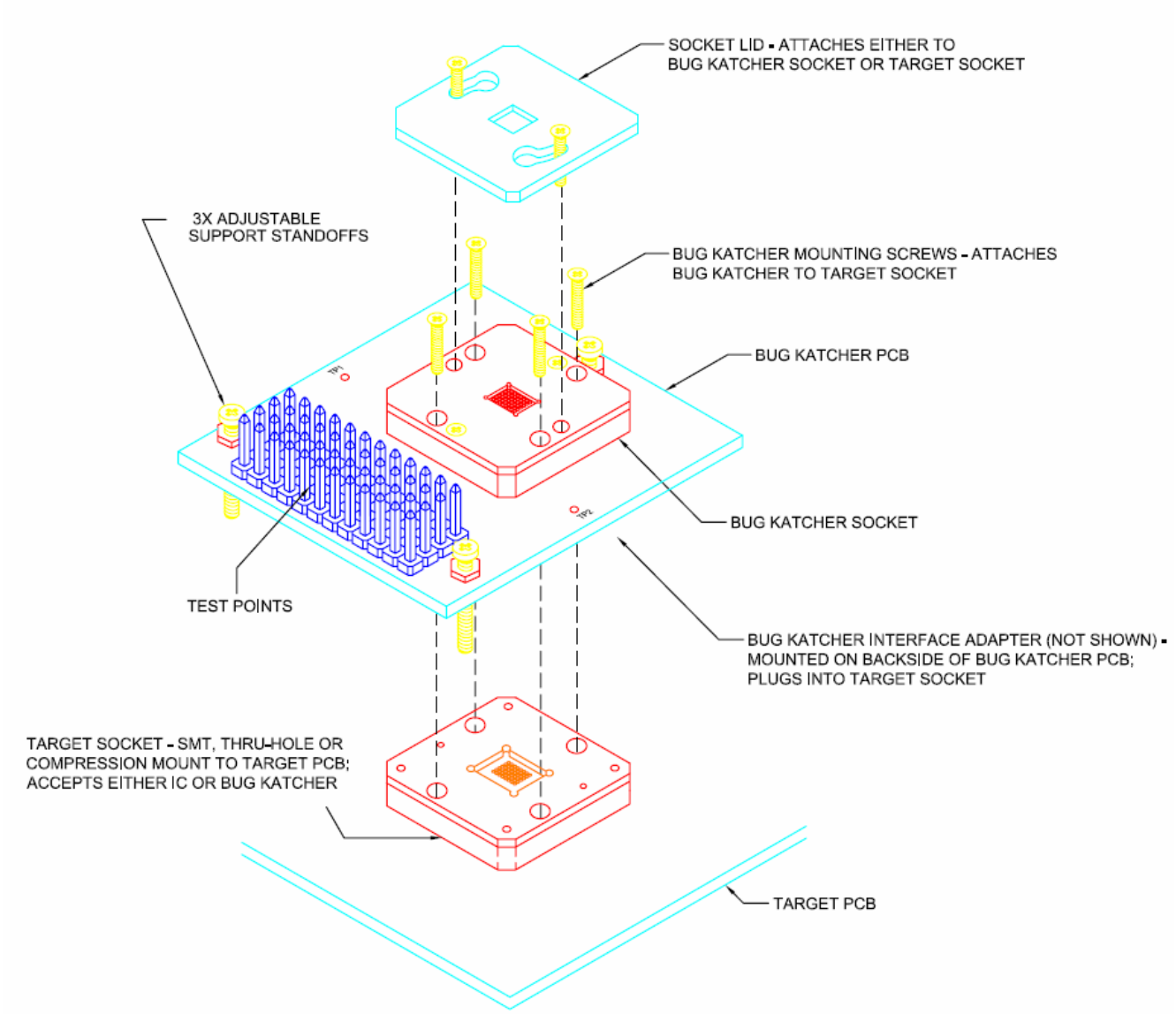
Pricing & Availability
Prices start at $45 per pin for 0.50, 0.65 and 0.75mm pitch BGA Bug Katchers in low pin counts, with delivery in two to four weeks ARO. Generic and custom Bug Katchers are available. Please view our website to order online at www.emulation.com, or contact ET Technical Sales at 1-800-232-7827 or sales@emulation.com.

EMULATION TECHNOLOGY
ET is celebrating its 23rd year of providing quality interconnect solutions for design and development engineers. The company's experience helping engineers create quality products and reducing costs associated with design, development, and time to market has made it the leader in this industry. Emulation Technology has more than 50,000 customers and operations in 23 countries worldwide. The company is privately held and is headquartered at 2344 Walsh Avenue, Bldg. F, Santa Clara, California 95051.

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48 BALL ON 0.75mm PITCH BUG KATCHER
EXPLODED VIEW