Boundary-Scan Without Boundaries™

CORELIS
An *EWA* Company

Smartbits Systems Dramatically Increases Production Yields with Use of Corelis' ScanPlus Boundary-Scan Tester
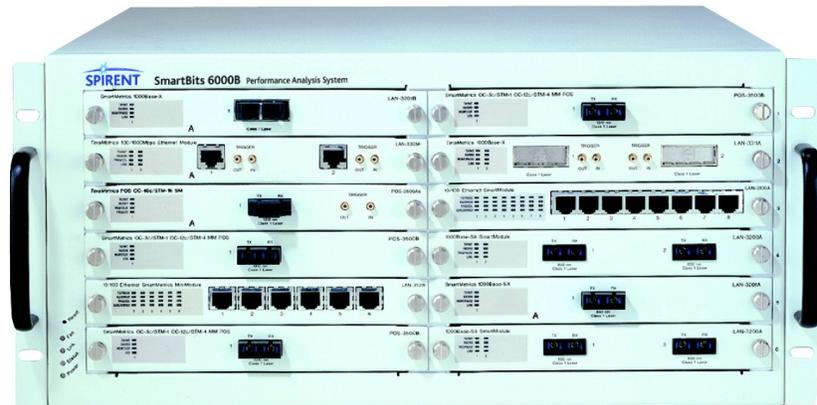
SPIRENT
Communications

"The Corelis system saves a lot of time. Tests are run in seconds saving hours of trouble-shooting."

"Functional test only tells you that the board or device is dead. Boundary-scan tells you where the fault is."

CORELIS

13100 Alondra Blvd.
Cerritos, CA 90703
Phone: 888-808-2380
Fax: 562-404-6196
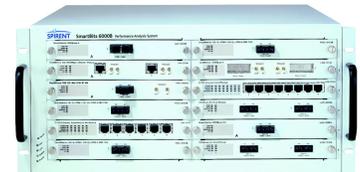E-mail:
sales@corelis.com
www.corelis.com

Smartbits Systems, a SPIRENT COMMUNICATIONS company, specializes in high-performance analysis and measurement systems for the networking industry, data service providers, and end-users worldwide.

"To achieve complex product functionality in small size packages, Smartbits Systems is developing and producing densely populated boards with many high-speed BGA parts," said Surin Shaw, Test Engineering Manager at Smartbits Systems.

When previously testing Smartbits Systems' densely populated boards, Shaw noticed an increasing failure rate and lower yields as the boards became more dense. In advance of new products and technologies where the migration of BGA components into the design was imminent, Smartbits Systems needed new tools to detect shorts and opens underneath the BGA components. X-ray was one option but is not fully effective at detecting opens. At that point, Shaw decided to look for test methods that would find interconnect and other manufacturing defects prior to running the functional test. Considering various alternatives, boundary-scan appeared to be the right solution for these types of problems.

Corelis was selected as one of the potential boundary-scan tool vendors and a careful analysis was done of the capabilities and ease-of-use of the available products for boundary-scan. Corelis' superb pre-sale support, the ease at which Corelis' system handled tasks such as generating test vectors and subsequent committed technical support, convinced Mr. Shaw that Corelis was the vendor and partner of choice.

As Surin Shaw puts it, "The Corelis system saves a lot of time. Tests are run in seconds saving hours of trouble-shooting. Functional test only tells you that the board or device is dead. Boundary-scan tells you where the fault is. The system also can tell if there is a missing resistor, as an open is created. We have been using Corelis' boundary-scan testers for the last 10 new product releases and it has proven to be invaluable."

"The results were above expectations," added Surin. "Interconnect and other production failures have been solved; moreover, boundary-scan methodology made the solution easy to implement. With the volatility of the market that Smartbits System addresses with its products, it is essential that time-to-market be minimized and product quality be the highest possible. With Corelis boundary-scan tools, Smartbits Systems found both a solution and a committed partner."

Shaw was so impressed with the added value of boundary-scan and Corelis' ScanPlus boundary-scan test tools that he is incorporating boundary-scan testability into all new product designs at Smartbits Systems.

About Corelis

Corelis, Inc., a subsidiary of Electronic Warfare Associates, Inc., offers bus analysis tools, embedded test tools, and the industry's broadest line of JTAG/boundary-scan software and hardware products combining exceptional ease-of-use with advanced technical innovation and unmatched customer service. Corelis' development and test tools are used by companies such as Agilent, Dell, IBM, Intel, Microsoft, Lockheed Martin, Rockwell Collins, Hewlett-Packard, Motorola, Qualcomm, Nokia, Panasonic, TI, Ford, Broadcom, Ericsson, and many others. Corelis products are found globally in every industry developing or manufacturing electronic products.

Boundary-Scan
Without Boundaries™

"We have been using Corelis' boundary-scan testers for the last 10 new product releases and it has proven to be invaluable.

"With Corelis boundary-scan tools, Smartbits Systems found both a solution and a committed partner."

CORELIS

13100 Alondra Blvd.
Cerritos, CA 90703
Phone: 888-808-2380
Fax: 562-404-6196
E-mail:
sales@corelis.com
www.corelis.com