

Thermo Fisher Centrios Improves Semiconductor Circuit Editing for Process Nodes 14nm and Above

Next-generation, cost-effective solution for front- and back-side edits enables rapid prototyping

PORTLAND, Ore., Nov. 12, 2019 /PRNewswire/ -- Circuit edit (CE) engineers, whether supporting designers or in service labs, who are looking for a cost-effective solution can increase their productivity with the next-generation Thermo Scientific Centrios circuit edit system. Announced today at the International Symposium for Testing and Failure Analysis (ISTFA) 2019, Centrios is a robust focused ion beam (FIB) circuit edit system that offers sophisticated capabilities typically associated with the most advanced systems. Centrios has been engineered to meet the stringent circuit edit requirements of devices at 14nm and above. With the latest in FIB technology, Centrios offers high-resolution imaging and precision milling over a wide range of beam currents.

"With Centrios, CE engineers can use just one tool to complete all the circuit edit steps required for rapid prototyping and design validation," said Glyn Davies, vice president and general manager of semiconductor at Thermo Fisher Scientific. "The system enables CE engineers to quickly resolve functionality issues, thereby reducing costs and speeding time to market for new designs."

Centrios is equipped with a unique simultaneous dual-nozzle gas delivery system and a broad chemistry portfolio for the most challenging CE applications. It enables rapid prototyping and circuit edit debugging to correct design errors, allowing engineers to more quickly deliver proven first silicon and working samples. The new solution offers the following advantages over other mid-range CE systems currently on the market:

- **Focused Ion Beam Technology:** Centrios is designed with the latest improvements in FIB technology to enable higher beam density with smaller spot sizes and beam profiles, giving CE engineers higher resolution milling and imaging required for successful edits on today's prevalent designs.
- **Simultaneous dual-nozzle gas delivery system:** The MultiChem gas delivery system allows engineers to achieve enhanced milling precision and control with uniform gas distribution for applications ranging from large area planar delayering to small size high aspect ratio via drilling and filling.
- **Comprehensive chemistry portfolio for all CE applications:** Recipes can be created using our unique customized chemistries to optimize for etch speed with high selectivity, as well as to deposit materials with the highest insulating and conductive qualities required to complete successful edits.

With today's announcement, Thermo Scientific's dedicated CE portfolio now includes both the Thermo Scientific Taipan for industry leading 7- to 5-nm processes and Centrios for the most prevalent designs at 14nm and above.

More information is available at thermofisher.com/centrios.

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