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BY BUSINESS WIRE
03/31/2015 06:30 AM ET

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In a Three-Year Arrangement, IDT’s Low-Latency RapidIO Interconnect Technology Will Be Used for More Efficient and Effective Analysis of Massive Data at CERN

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SAN JOSE, Calif.--(BUSINESS WIRE)-- Integrated Device Technology, Inc. (IDT®) (NASDAQ:IDTI) announced today that it has entered a three-year collaboration with the European Organization for Nuclear Research (CERN) to use IDT’s RapidIO technology to help improve data acquisition and analysis in some of the world’s most advanced fundamental physics research. Massive volumes of data are collected by the experiments on CERN’s Large Hadron Collider (LHC), the world’s largest and most powerful particle accelerator. Teams from IDT and CERN will use the IDT technology to improve the quality and timeliness of this data collection, as well as the initial analysis and reconstruction work at the experiments’ data farms and the CERN Data Centre.

The LHC produces millions of collisions every second in each detector, generating approximately one petabyte of data per second. This data is vital to CERN’s quest to answer fundamental questions about the universe. The RapidIO technology provides a low-latency connection between clusters of computer processors, dramatically speeding the movement of data. Widely used for 4G base stations, IDT’s low-latency RapidIO products can also enable real-time data analytics and data management for high-performance computing (HPC) and data centers.

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As part of the mandate for the fifth phase of the CERN openlab partnership, several of the LHC experiments are exploring the possibility of moving from custom-built hardware and backplanes to fully programmable heterogeneous computing with low-latency interconnect between large clusters of processors. IDT’s current RapidIO 20 Gbps interconnect products will be used in the first stage of the collaboration with an upgrade path to RapidIO 10xN 40 Gbps technology in the future as research at CERN progresses.

"This CERN collaboration is about enabling programmable real-time mission critical data analytics,” said Sailesh Chittipeddi, IDT's vice president of Global Operations and chief technology officer. “Since the job spans multiple processors, the interconnect between them has to be ultra-low latency, and our technology—already used across 4G wireless base station deployments worldwide—is ideally suited to CERN’s real-time interconnect needs."

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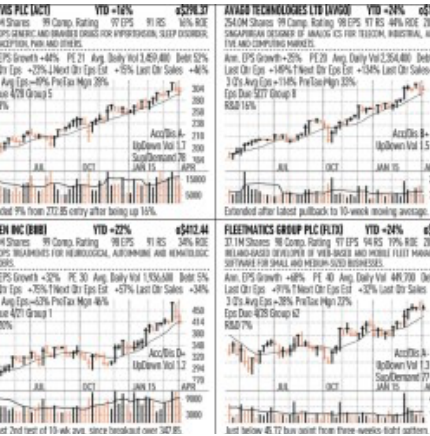
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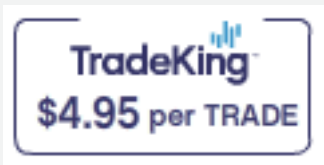
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