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Samtec Launches Channelyzer™ Online Full Channel Simulation and Analysis Tool

Channelyzer™ helps reinforce channel confidence for user-defined high-speed serial data channels

New Albany, IN: [Samtec](#), a privately held, debt-free \$625 million global manufacturer of a broad line of electronic interconnect solutions, proudly announces the release of [Channelyzer™](#) – an online full channel simulation and analysis tool. Channelyzer™ enables engineers to optimize their high-speed serial data channel by delivering performance data and optimization strategies within 24 hours. Leveraging user-defined system inputs, this easy-to-use tool provides the necessary data to reinforce channel confidence.

Channelyzer™ simplifies the modeling of the high-speed serial data channel in board-to-board applications. Users can select mated connector pairs from twenty nine Samtec product families while defining PCB material, trace type and length, package models and transceiver details. Future applications supported by Channelyzer™ will include connector only, backplane applications and cable assemblies.

Features of Channelyzer™ include:

- Channel modeling defined by package model, connector selection, PCB material, trace type and length and other system variables
- Simulated test results for standards (IEEE 100GBASE-KR4, OIF CEI-28G-SR, OIF CEI-28G-MR and OIF CEI-25G-LR) and transceivers at varying equalization levels and data rates
- Generated individual receiver performance data per user-defined Tx/Rx assignments
- Channelyzer™ reporting details include:
 - Channel overview and strategies for improved performance
 - Differential impedance, insertion loss, return loss, PSXT
 - Voltage bathtub curves
 - COM as a function of BER
 - Probability density eye summary

“Small and medium-sized OEMs typically have high barriers of entry for system-level signal integrity simulation and analysis. Signal integrity is often not a core competency, or it requires a high investment in standard SI tools,” said Matt Burns, Technical Marketing Manager at Samtec. “With 28Gbps data rates becoming standard and 56Gbps on the horizon, access to SI simulation and analysis remain essential for optimum signal performance. Channelyzer™ empowers OEMs of all sizes with basic SI capabilities by leveraging the expertise and connectors Samtec has developed.”

To learn more about Channelyzer™ check out this [Getting Started Guide](#) and [how-to video](#).

About Samtec, Inc.

Founded in 1976 and headquartered in New Albany, IN, Samtec, Inc. is a privately held, debt-free \$625 million global manufacturer of a broad line of electronic interconnect solutions, including IC-to-Board/Ultra Micro, High Speed Board-to-Board, High Speed Cables, Future-Proof/Active Optics, Flexible Stacking, and Micro/Rugged components and cables. To meet the interconnect challenges of tomorrow and beyond, Samtec has developed Technology Centers dedicated to developing and advancing technologies and products that provide both performance and cost benefits, ensuring complete system optimization from the bare die to an interface 100 meters away, and all interconnect points in between. With 33 locations in 18 different countries, including manufacturing facilities in New Albany, Colorado, Oregon, Costa Rica, China, Malaysia and Singapore, Samtec’s global presence enables its unmatched customer service.

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