

FOR IMMEDIATE RELEASE

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Dreamchip Electronics Achieves Breakthrough with Siddhi SoC, Unveiling a Game-Changer for High-Volume Consumer Tech

Visakhapatnam, India – Dreamchip Electronics, a rising innovator in the semiconductor industry, today announced a groundbreaking design milestone with its Siddhi System-on-Chip (SoC), overcoming the formidable challenges of power, performance, and yield constraints that define high-volume consumer technology devices. Leveraging the cutting-edge SANKHYA Teraptor System Compiler—a revolutionary processor-to-GDS2 design flow—Dreamchip has realized the chip that redefines efficiency and scalability.

Originally tasked with fitting the Siddhi SoC within a 1mm x 1mm space budget on a cost-effective 180nm semiconductor node, Dreamchip has shattered expectations by realizing the chip at an astonishing 0.5mm x 0.5mm. This 75% reduction in area translates to a 4x yield improvement, enabling significantly more chips per wafer. With an addressable market spanning hundreds of millions, this milestone promises substantial cost savings and enhanced profit margins, positioning Dreamchip as a leader in affordable, high-impact technology solutions.

The Siddhi SoC powers the innovative Siddhi Digital School Bag, a transformative education tool running the SANKHYA Anusthitam OS and supporting the SCCI Sanskriti information encoding specification for Indian languages. Designed to bridge the digital divide, this device is currently under evaluation by the Office of the District Education Officer in Visakhapatnam district, signalling its potential to reshape learning in India. To bring this vision to life, Dreamchip is actively appointing retailers to distribute the Siddhi Digital School Bag nationwide.

“Designing semiconductor chips for mass-market consumer devices is no small feat, but our team has turned a tough challenge into a remarkable opportunity,” said Gopi Bulusu, CTO at Dreamchip Electronics. “The Siddhi SoC’s compact design and yield efficiency, paired with the SANKHYA Teraptor System Compiler, unlock unprecedented value. We are thrilled to see the Siddhi Digital School Bag move closer to

classrooms, empowering millions of students with accessible, cutting-edge technology.”

This milestone underscores Dreamchip’s commitment to innovation and its strategic focus on education technology. As the company scales up, the Siddhi SoC’s success could ripple across global markets, proving that smart design can deliver big results—even on a low-tech node.

For more information, media inquiries, or retailer partnership opportunities, please contact:

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About Dreamchip Electronics

Dreamchip Electronics is a pioneering fabless semiconductor company dedicated to delivering cost-effective, high-performance solutions for consumer technology markets. With a focus on education and emerging economies, Dreamchip is driving innovation where it matters most.

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