

L&T Press Release

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LTSCCT Expands Advanced Power Design Capabilities with Synopsys

Multiyear simulation software agreement supports India's growing power electronics and semiconductor ecosystem

Mumbai, May 12, 2026: L&T Semiconductor Technologies Ltd (LTSCCT), a leading Indian fabless semiconductor company and a wholly-owned subsidiary of Larsen & Toubro (L&T), today announced a multiyear license agreement with Synopsys Inc., a leader in engineering solutions from silicon to systems, to strengthen its advanced power electronics design capabilities and support India's growing semiconductor ecosystem.

Under the multiyear agreement, LTSCCT will adopt Synopsys' simulation software to accelerate AI-enabled design and optimisation of next-generation power modules and intelligent power modules (IPMs). The collaboration is expected to enhance design efficiency, improve reliability and reduce development cycles by integrating simulation, physics-based modelling and data intelligence across the design workflow.

“The agreement with Synopsys is a pivotal step toward accelerating next-generation power solutions, designed and optimised through AI-driven multiphysics simulation. This collaboration enables LTSCCT to design at the chip, package and system levels seamlessly. It will thereby enhance reliability, reduce development cycles and accelerate our time to market. Together, we are shaping a new paradigm in power electronics, one where intelligence, performance and sustainability converge”, said **Sandeep Kumar, Chief Executive - LTSCCT**.

The agreement enables LTSCCT to leverage Synopsys' multiphysics simulation technologies to enhance its design workflows across chip, package and system levels. As voltage levels scale from 1.2 kV to 10 kV, accelerating development timelines while ensuring design for reliability and design for manufacturing requires advanced modelling that integrates material science, metallurgical, thermo-mechanical and electro-mechanical properties. AI-enabled simulation will support optimisation across electrical, thermal and mechanical domains, enabling improved performance and reliability while reducing prototyping costs.

Speaking about the agreement, **Padmesh Mandloi, Regional VP - Ansys Customer Excellence, Synopsys**, said: “This agreement enables a significant leap in the evolution of

India's semiconductor design capabilities, especially in the fast-growing domain of intelligent power modules. Following Synopsys' acquisition of Ansys, the combined portfolio of industry-leading multiphysics simulation technologies with AI-accelerated design platforms, offering solutions from silicon to systems, will empower LTSCT to innovate at the intersection of physics, data and intelligence. We enable innovators like LTSCT to redefine how power modules are designed and enable faster, more reliable and energy-efficient solutions that will power India's journey toward sustainable mobility and smart manufacturing".

The collaboration will empower innovation across key sectors, including electric mobility, renewable energy and industrial automation, advancing the next generation of intelligent power solutions.

LTSCT's work will focus on developing integrated module architectures that combine power devices, gate drivers, protection circuits and control logic in compact form factors. Through AI-accelerated multiphysics modelling, LTSCT will now be able to simulate chip, package and system-level performance concurrently, improving design robustness while reducing prototyping costs.

This multiyear agreement reflects LTSCT's continued investment in advanced design technologies and its commitment to strengthening India's power electronics and semiconductor design ecosystem.

About LTSCT

L&T Semiconductor Technologies Ltd (LTSCT), a wholly-owned subsidiary of L&T, is the first major Indian semiconductor products company - a fabless enterprise for designing and delivering smart devices for global customers. LTSCT is a company that provides semiconductor devices and technology partnerships by helping customers realise energy-efficient, high-performance systems to benefit from data, electrification and software-defined technology trends.

Our aim is to build an India-based semiconductor portfolio of smart devices across MEMS Sensors, Power, Analog Mixed Signal and RF products, to support automotive, industrial, energy and telecommunication verticals. We are present in four prominent geographies, i.e., the US, Europe, Japan and India, with offices in Austin, Munich, Tokyo, Bengaluru and Chennai. For more, visit <https://www.ltsct.com/about-us/>

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