



## Compal Electronics And Ansys Accelerate 5G Laptop Product Development

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Electromagnetic simulation solutions and automated analysis slash time-to-market for 5G-enabled laptops

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Compal

### Key Highlights

- Compal Electronics adopted Ansys automated simulation and analysis solutions to reduce data processing time from weeks to days
- Ansys enables Compal Electronics to design and simulate high-frequency electronics, enhancing product safety and enhancing product reliability

[Compal Electronics](#) is using [Ansys](#) (NASDAQ: ANSS) to automate simulation data processing to accelerate research and development (R&D) cycles for its 5G laptops. Eliminating the gap between simulation and data analysis through automation, Compal and Ansys are minimizing reporting time required for critical certifications to swiftly bring 5G laptops to consumers.

As 5G continues to roll out globally, Compal, an original design manufacturer, is bringing 5G millimeter wave antenna modules to its computer products. Before the products are available for consumers, manufacturers must provide labor-intensive analysis reports that meet stringent international compliance requirements. These reports often take weeks to complete manually due to the volume and complexity of the data involved. Compal is using Ansys to expedite this process — adopting its automated simulation and analysis process to access, analyze and understand information required for reporting in mere days, such as electromagnetic field distributions.

Ansys empowered Compal to obtain a first-of-its-kind certification from the Federal Communications Commission for its 5G millimeter-wave laptop this year. The certification enables clients of Compal to market and sell its laptop in the U.S. and bolsters Compal's position as a leader in the 5G sector.

"Working with novel technology, such as 5G, presents new engineering challenges," said Andy Lee, senior vice president of PC R&D and Jerry Pan, head of R&D and engineering at Compal Electronics in a joint statement. "It also presents new opportunities to refine processes. Our collaboration with Ansys enables our engineers to dedicate their time to bringing the best possible 5G laptop to consumers faster than our peers."

Compal also leverages Ansys' flagship HFSS 3D electromagnetic simulation software to design and simulate 5G antennas within a device, where package interactions can change the radiated emissions. This allows Compal engineers to conduct extensive multiphysics analysis for pre-compliance testing, leading to reduced product testing time and faster validations and certifications.

"Access to the most advanced solutions is imperative for shortening the R&D process and time-to-market," said Shane Emswiler, senior vice president and general manager at Ansys. "From developing 5G antennas to expediting regulatory compliance to reducing data processing time, Ansys simulation solutions are critical to ushering in the 5G era."

### About Ansys

If you've ever seen a rocket launch, flown on an airplane, driven a car, used a computer, touched a mobile device, crossed a bridge or put on wearable technology, chances are you've used a product where Ansys software played a critical role in its creation. Ansys is the global leader in engineering simulation. Through our strategy of Pervasive Engineering Simulation, we help the world's most innovative companies deliver radically better products to their customers. By offering the best and broadest portfolio of engineering simulation software, we help them solve the most complex design challenges and create products limited only by imagination. Founded in 1970, Ansys is headquartered south of Pittsburgh, Pennsylvania, U.S.A. Visit [www.ansys.com](http://www.ansys.com) for more information.

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