

STMicroelectronics Advances 60 GHz Contactless Communications with HPC

Products and Solutions

2nd Intel® Xeon® Scalable Processors Intel® Advanced Vector Extensions 512 Intel® one API Math Kernel Library Operating at very high frequencies, millimeter wave devices for close-range wireless communications are complex to create and validate. STMicroelectronics (ST) meets the challenges with HPE ProLiant servers based on Intel® Xeon® Gold processors onpremises and similarly configured systems in Microsoft Azure cloud. Ansys HFSS handles ST's electromagnetic analysis and simulation requirements. Ansys HFSS takes advantage of Intel® Advanced Vector Extensions 512 and Intel® one API Math Kernel Library to keep performance high. Together, Ansys software and Intel technology-based infrastructure help ST produce innovative 60 GHz products within schedule requirements. Simulations are completed faster, leaving more time to analyze difficult aspects of the design and helping reduce validation costs.¹

Industry Semiconductors Organization Size 10,001+

Country Switzerland Partners
Ansys
HPE
Microsoft Azure

Learn more

Case Study

HPC and the performances increases of the last few years, we have been able to perform analyses that would not have been feasible before."

Olivier Bayet, leader in silicon packaging codesign, signal integrity, and power integrity, STMicroelectronics