



White Paper

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5G and the Advanced Connectivity Industry

Technology to Inspire Innovation



5G and the Advanced Connectivity Industry

The growth of 5G around the world means more data will be travelling faster around more devices, and the reliability of connectivity between those devices will be key to the success of 5G. JAE is playing its part in providing high quality connection solutions to this key market.

Image: Low Latency and High Throughput are key for 5G Networks.



The key benefit of 5G is the speed of data transfer and the large amounts of data moving between devices. These characteristics will facilitate the development of ever more sophisticated applications of 5G technology that will have very few limits to their functionality. But they will all depend on low latency connections and the high throughput of data, not only for mobile devices, but also for all other equipment on 5G networks, and this is where JAE's expertise and experience will be key.



Image: 5G – Data is travelling much faster than before.

We are already seeing the expansion and development of applications like the Internet of Things in Robotics and Factory Automation. JAE connectivity solutions will mainly apply in the more critical areas of such applications, for example in the fields of automated robot movement, remote factory control or energy efficiency improvement applications.

The AX01 floating board-to-board connectors from JAE, combine both high-speed transmission, and an innovative and reliable two-point contact technology. High-speed signal transmission in industrial equipment is a key part of the “smart factory”, and these 5G communication environments require high data transmission rates. With the AX01 board- to-board connector series, JAE has created a solution that meets customer demands for particularly reliable contacts and high-speed transmission requirements. The connectors are capable of transmission exceeding 8 Gbps.

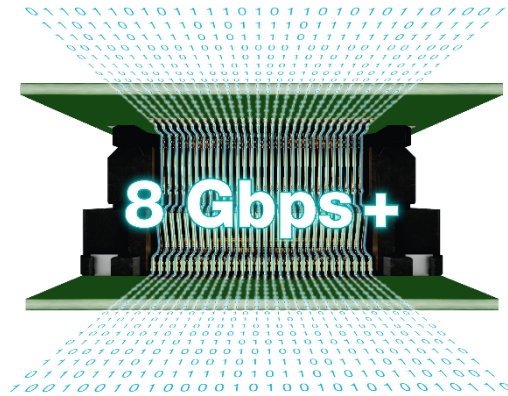


Image: AX01 enables a reliable, high speed transmission of data.

5G will come to dominate our lives both at home and in business. JAE will continue be at the forefront of providing state-of-the-art modular connectivity solutions to ensure the best possible 5G experience for everyone.

5G will allow the development of novel and innovative applications – for example: proactive and predictive maintenance in smart factories, autonomous driving, robotics, and etc. In everything we do at JAE, we strive to facilitate and accelerate the path to a more interconnected future, by offering innovative, compact and high-speed solutions.



Image: Smart Factory and Autonomous Driving applications will benefit from the high speed provided by 5G.



About JAE

As a globally recognized supplier of electronic connectors, JAE Europe, Ltd. (subsidiary of Japan Aviation Electronics Industry, Limited (JAE)) designs, manufactures and markets superior electronic connectors and aerospace products to a variety of industries. With the philosophy “Explore, Create, and Practice”, the company continues to lead the way in providing innovative solutions to an increasingly demanding industry. By combining divergent technologies from experience gained in the aerospace and automotive industries, JAE has been able to transfer these technologies into advanced connector designs with the most demanding applications in the industry. Our parent company, Japan Aviation Electronics Industry, Limited (JAE), is a globally oriented supplier of electronic components, fibre optic connectors, LCD monitor connectors, waterproof electrical connectors and other digital systems. Wholly owned by JAE, JAE Europe, Ltd. was established on 1996. Solutions for a Wide Variety of Industries: At JAE Europe, Ltd., we offer a wide selection of connector and sensor solutions for a variety of different industry applications.



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Levon Altunyan is Product and Marketing Manager at JAE Europe. Within his field of expertise, Levon is responsible for the industrial connector sector and product development in JAE Europe.

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