TO SUPPORT FUTURE FLIGHT COMPUTING REQUIREMENTS - COLLINS AEROSPACE LAUNCHES PERIGON

News / Manufacturer

Collins Aerospace announced the launch of its PerigonTM computer, available for a broad range of commercial and defense platforms. With advanced computing power, open-system architecture and flexible configurability, Perigon is designed to enable future flight control and vehicle management needs.

“From autonomy to cybersecurity, customers want their platforms to do more than ever before,” said Kim Kinsley, vice president and general manager, Environmental and Airframe Control Systems for Collins Aerospace. “Yet more capabilities require a commensurate increase in processing power. Enter Perigon. With its unique combination of power and flexibility, Perigon stands ready to help customers meet the future flight computing requirements of tomorrow.”

Developing Perigon

At the 2018 Farnborough International Air Show, Collins announced the development of a next-gen vehicle management computer designed to support autonomous flight. Since then, Collins has built a working prototype and is currently performing detailed development and integration testing, with an eye toward qualification testing in 2022. The company has also branded the computer as Perigon, a mathematical term for a 360-degree angle. Collins chose the name to represent the

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many capabilities Perigon can offer customers, the holistic view of systems and inputs it provides, and its enhanced flexibility.

Advanced computing power, open-system architecture

Perigon will have the ability to provide 20 times the processing power of Collins' existing flight control computers, thousands of which are currently in service on a multitude of platforms worldwide. Combined with its open-system design, Perigon's high computing power will allow customers to load it with a variety of complex software applications, including autonomous and fly-by-wire flight control, cybersecurity, vehicle management and predictive health maintenance. In addition, capabilities that previously required multiple computers across a platform may now be able to be performed by Perigon alone, thanks to its enhanced processing power. This, in turn, could enable customers to reduce the number of computers onboard and enjoy space, weight and cost savings as a result.

Flexible configurability for a range of applications

Depending on the customer's needs, Perigon can be configured as simplex, duplex or triplex redundant. It will be FAA certifiable to facilitate aircraft level certification, available for commercial or military rotary and fixed wing platforms.

"From air transport, to sixth-gen fighters, to the U.S. Army's Future Vertical Lift program, to aerial firefighting and beyond, we see broad opportunities for Perigon across the aerospace and defense industry," said Kinsley.

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