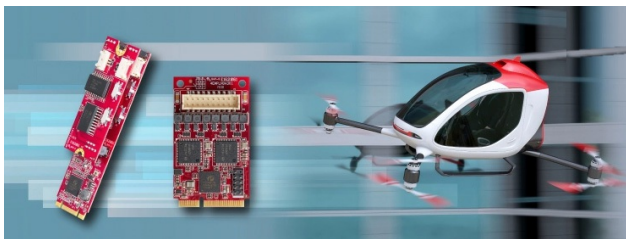


CAN Newsletter Online

AIRCRAFT AND OTHER APPLICATIONS

CAN modules for unmanned systems

Innodisk recently released their latest CAN modules. The products come with various form factors and are suitable for use in unmanned systems such as aircraft applications. They also support J1939 and CANopen.



The CAN modules are suitable for aircraft applications (Source: Innodisk)

The demand for unmanned systems has seen marked growth since 2020, with a report from Fortune Business Insights estimating a CAGR of 12,23 % for the UAV segment, explained Innodisk. Industry verticals have felt the impact of unmanned systems, such as agriculture, logistics, transportation, and aerospace, which have all begun to leverage the benefits of unmanned vehicle technologies.

Unmanned aircraft are at the heart of all unmanned systems, but at the heart of all unmanned systems is the CAN network. With this continued expansion, complexity, and the efficiency requirements of new applications, it is critical that the CAN module can operate in harsh conditions, like extreme temperatures and electromagnetic interference. The company's CAN modules support temperatures for harsh environments, 2,5-KV isolation protection, and the high-layer protocols J1939 and CANopen needed to ensure performance in extreme conditions without degrading, the company added.

Amongst the latest adopters are unmanned flight applications, which has utilized Innodisk CAN modules in the latest aircrafts. The company's USB to CAN module has built into autonomous commercial drones, as well as agriculture machine, robot operating system (ROS), automated guided vehicle (AGV) that for all kinds of "smart" applications. CAN is enabled to control the system, interact with the onboard computer and various CAN devices as well as diagnose issues in ground stations.

"We think it's pretty cool that Innodisk's CAN modules are successfully supporting our customers' projects of different smart applications," said Johnny Wu, Senior Manager of Innodisk's Intelligent Peripheral Application Department. He further added, "Using Innodisk products for their unmanned devices reaffirms our commitment to providing the most durable products on the market. We're proud to have played a small but crucial part in their developments."



Cargo transportation, agricultural spraying, flying crane service, as well as emergency management are application areas for the CAN modules (Source: Innodisk)



The modules support the J1939 and CANopen higher-layer protocols (Source: Innodisk)

CAN solutions capable of handling the strain of these harsh environments have, until now, been a roadblock for systems development. The company's CAN modules provide complete hardware and software integration and offer different form factors to fit diverse demands. For integrators and engineers looking to introduce their products into the unmanned systems space, it is tantamount that their hardware solution will meet the rigors of these industrial environments.

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