

# Next Generation Perigon Flight Control Computer to See First Placement in Defiant X Helicopter



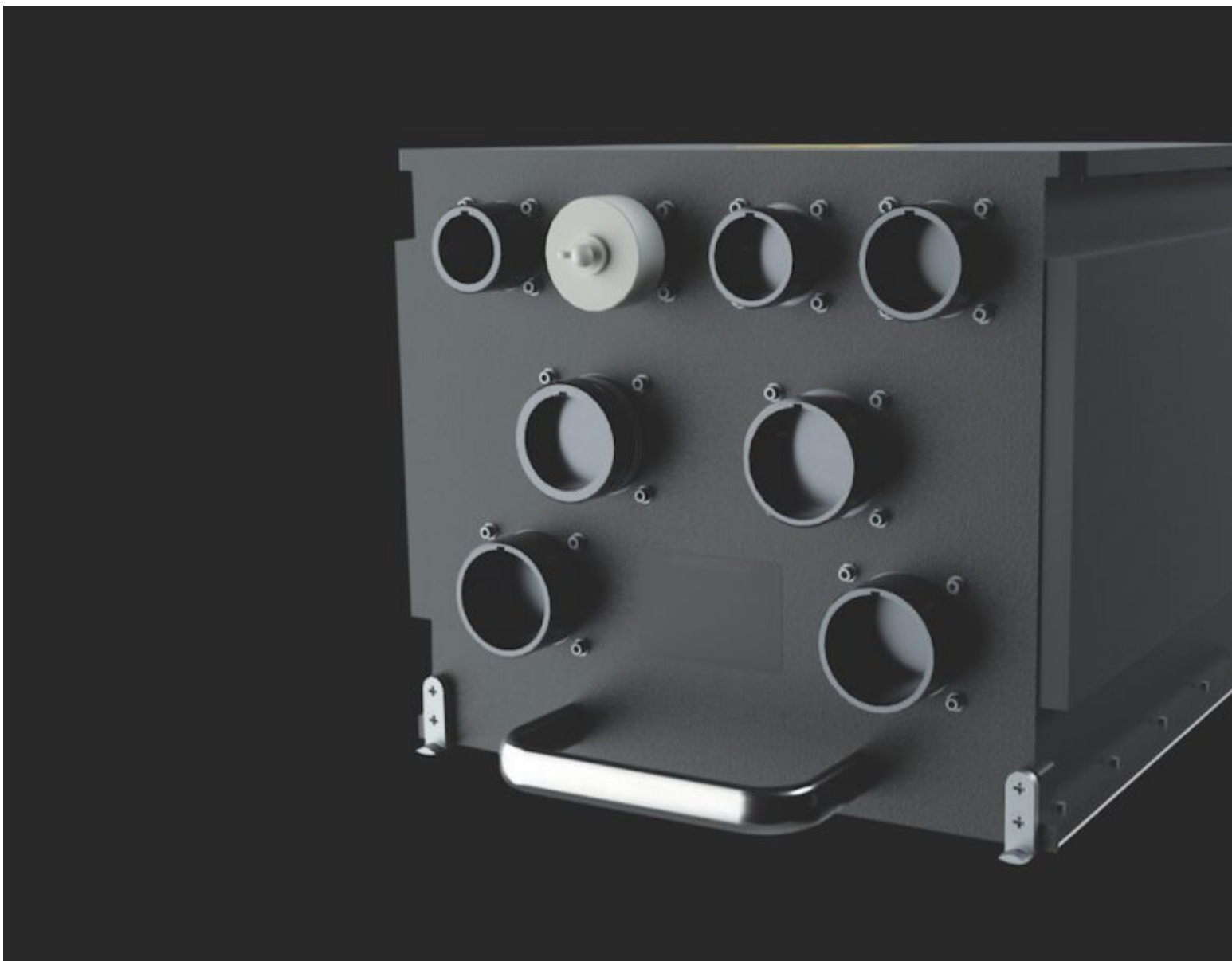
Lockheed Martin Sikorsky Boeing has actually chosen the Collins Aerospace Perigon flight control computersystem for its Defiant X innovative energy helicopter. (Collins Aerospace)

The next generation Collins Aerospace Perigon flight control computersystem has got its veryfirst airframe choice as it will endupbeing a main part of the avionics included on the Lockheed Martin Sikorsky-Boeing Defiant X sophisticated energy helicopter.

Defiant X is the co-axial stiff rotor being established by Sikorsky and Boeing that has actually been chosen as a finalist for the U.S. Army's Future Long Range Assault Aircraft (FLRAA) competitors that intends to discover a replacement for the UH-60 Black Hawk helicopter. Collins Aerospace veryfirst released Perigon as a next generation automobile management computersystem in 2018, and accomplished some significant program turningpoints last year with its advancement by including AdaCore and Lynx Software Technologies as ingrained softwareapplication and processing providers.

Kim Kinsley, vice president and basic supervisor, ecological and airframe control systems for Collins Aerospace, commenting on the choice, stated that Perigon's "enhanced processing power will enable it to incorporate various DEFIANT X functions, consistingof flight control, energy management, prognostic health and innovative flight modes such as autonomy."

Defiant X will likewise be gearedup with an "optionally-piloted flight control system," according to Lockheed's summary of the platform.



Collins Aerospace is establishing a next generation flight control computersystem, Perigon, and anticipates it to be allset for certification screening by the end of this year. (Collins Aerospace)

During an interview with *Avionics International* last year, Darryl Woods, basic supervisor of the flight control systems department of Collins Aerospace, described how the usage of multicore processors, an input/output (I/O) card, and high-speed backplane will offer Perigon “20 times the processing power of its existing flight control computersystems.”

Perigon functions 3 different multicore processors, each capable of separately accomplishing 1 ghz (GHz)—or a billion clock cycles per 2nd—processing power.

In addition to Perigon, Collins will likewise supply the armored pilot and co-pilot, cabin team, and troop seats for the Defiant X. The Lockheed Martin Sikorsky Boeing group establishing Defiant X has likewise included the Irvine, California-based department of Parker Aerospace to supply flight controls, while Fort Worth, Texas-based Elbit Systems of America will supply the objective system computersystem.

Boonton, New Jersey-based Marotta Controls is supplying electrical power system parts for Defiant X, while the group likewise formerly revealed Honeywell Aerospace as the provider of its brand-new HTS7500 turboshaft engine to power the helicopter.

Source: [Next Generation Perigon Flight Control Computer to See First Placement in Defiant X Helicopter](#).