

RADIOELECTRONICS FOR HIGH PRECISION GUIDANCE

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The aim of this paper is to discuss applicability of the fifth-generation aviation-vetronics concept to the integrated electronic systems used with high precision guidance, this being considered as an argument confirming that this concept is universal enough to be applied for characterizing a certain phase in the advancement of any kind of vetronics.

The principles which characterize, in our opinion, the fifth generation vetronics used for high precision guidance are outlined below. They are as follows.

1. Signals and data integration as well as hardware integration.
2. Multisensority.
3. Autonomous functioning.
4. Information sensor modularity.
5. Intellectualization of function.
6. Openness in architecture.

7. Following the COTS (Commercial Off The Shelf) concept.

Their use in vetronics will make it possible to:

- provide implemented, especially in the terminal phase; significantly-increased time

resources to all the functions;

- use efficiently the geometry and size of a host platform, e. g. To arrange for interferometric surveillance;

- increase the noise immunity of vetronics by the use of space-time and polarizing filtration;

- rise significantly the reliability of

vetronics.

The theoretical and experimental achieved results are discussed