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OVERVIEW OF OHB SYSTEM'S NAVIGATION AND TELECOMMUNICATION SATELLITES CAPABILITIES

Abstract

In the last decade, OHB System has been involved in the development and implementation of satellite and bus technology serving a wide range of missions, especially in the areas of reconnaissance, navigation and telecommunication. As one of Europe's "large system integrators", the company focuses on progressive technologies, such as electric propulsion, novel operational concepts and promising experiments e.g. GNSS in GTO and GEO.

This paper aims at providing an overview of the main design features of the vehicles successfully developed, launched and validated in-orbit for both types of missions, namely Galileo MEO satellites and Small GEO first application satellite (H36W1). Their main development steps are illustrated together with a summary of major in-flight performance data.

The evolution of both vehicles and their adaptation to future GEO and MEO missions is also briefly addressed to demonstrate the modularity of their basic designs including compatibility with various launchers.