

Small Satellites (13)

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EXPLORATION OF SMALL SATELLITE DEVELOPMENT MODE

Abstract

In recent years, with the increasing demand of space market, the development of small satellite technology has attracted more and more attention. At the same time, the rapid development of mobile internet has the requirement of massive data for satellite communication and remote sensing. After navigation, the application of satellite remote sensing and satellite communication has entered the mass consumer market, not limited to the application of government departments. The marketization, open and fusion development of small satellite industry is the general trend. This puts forward the requirements for the development mode of small satellites, and needs deep reform with the change of market demand.

The aerospace industry has made the necessary preparation from technology and production organization. The development technology of micro-nano satellite represented by cubesat has established the relevant design and test standard system, and the Support Department component also formed the standard shelf product.

This paper focuses on the development mode of various types of small satellites, and points out drawbacks that exist in the current market demand environment, and then puts forward some possible suggestions. Believe in the future, the satellite will completely get rid of the status that the customized aerospace products were only designed to meet the needs of the national mission, and transform to the industrialized products manufactured in batches, and eventually become a popular consumer electronics.