The HEPD-02 Data Processing and Control Unit for the CSES-02 mission

What is this contribution about?

This contribution aims to introduce the architecture of an electronic and computing board for space applications based on commercial electronic components and good reliability

Why is it relevant / interesting?

We propose a new architecture for a control unit for space experiment with LEO orbit based on COTS components

What have we done?

Described the board architecture, the main interfaces and the criteria used for the choice of components and solutions to ensure reliability

What is the result?

A new control board with good computing power has been proposed. This architecture is a good candidate for future space experiments in LEO orbit