

SMALL SATELLITE MISSIONS SYMPOSIUM (B4)
Small Satellites Potential for Future Integrated Applications and Services (4)

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SMALL SATELLITE BUSES CATERING FOR DIFFERENT MISSIONS

Abstract

As a part of the small satellite projects, two types of spacecraft buses are planned, one in the class of microsatellites and the other in the class of minisatellites. The first microsatellite was successfully designed and fabricated with miniaturised sub-systems and has carried remote sensing payloads. The same bus has been reconfigured with minimal changes for a second mission with payloads for observation of Solar activity and Earth atmosphere. This bus has proven to be a good candidate for missions with payloads for earth observation as well as space science. The paper describes the first two missions and future improvements planned in this bus. Also the paper covers the mini-bus configuration and the capability of the bus for different payloads.