

SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)  
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KSLV-I ONBOARD TELEMETRY AND TRACKING SYSTEM: DEVELOPMENT AND FEATURES

**Abstract**

KSLV-I, the first launch vehicle of Korea, has been developed and tested to place STSAT-2 into LEO in 2009. In order to transmit flight data and image data of the launch vehicle in real time, telemetry system of KSLV-I is composed of the conventional S-band PCM telemetry subsystem and the video subsystem. Tracking system of KSLV-I includes a C-band transponder and two antennas for tracking the flying vehicle to the end of mission. This paper introduces design, development, tests and features of telemetry and tracking system of KSLV-I upper stage.