

On-Board Software Development for GOCI Payload of COMS

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Korea Aerospace Research Institute (KARI) has been developing the Communication, Ocean and Meteorological Satellite (COMS) with EADS Astrium since 2005. A geostationary satellite, COMS is to be launched in 2008 and designed for 7 years mission life. The basic mission of the COMS is to improve the accuracy of domestic weather forecast, to preserve the sea environment and to validate new communication technologies. The Geostationary Ocean Color Imager (GOCI) is one of the three payloads embarked on the COMS. It acquires ocean image data in 8 visible spectral bands with a spatial resolution of about 500 m over the Korean sea. Since the GOCI payload does not have its own computer system, GOCI operations shall be controlled by the satellite. This paper explains how the GOCI payload is controlled by the satellite embedded software, On-Board Software.