

SPACE SYSTEMS SYMPOSIUM (D1)
System Engineering Tools, Processes & Training (I) (3)

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THE DESIGN OF GROUND VERIFICATION EQUIPMENT FOR KOMPSAT-3 PAYLOAD DATA
TRANSMISSION SYSTEM

Abstract

KOMPSAT-3 is remote sensing satellite which 1 meter resolution electro-optic camera and 4 meter resolution 4 band camera are mounted. The Payloads of KOMPSAT-3 makes about 4 Giga bits image data stream. Payload Data Transmission System of KOMPSAT-3 has the capability of 640 Mbps data transmission from satellite in the space to ground station using the dual polarization in the X-band range and QPSK modulation. And ground verification equipment had to be designed to test the integrity of data receiving in the dual polarization and QPSK modulation. In this paper, we will present the design and Implementation of ground verification equipment for KMPSAT-3 Data Transmission.