

Micro satellite development in Indonesia

ROSWINTIARTI, ORBITA^{1*}

¹Remote Sensing Technology and Data Center Indonesian National Institute of Aeronautics and Space

The micro satellite development in Indonesia, which is mainly conducted at the Indonesian National Institute of Aeronautics and Space (LAPAN), has been initiated after the applications of the remote sensing data result in significant contributions in various sectors (forestry, agriculture, meteorology, hidrology, disaster management, etc.).

The polar orbiting LAPAN TUBSAT (LAPAN A1) launched in 2007 is the first experimental micro satellite (57 kg weight) as the result of join cooperation between TU Berlin and LAPAN. Its payload carries two color video cameras for aerial surveillance monitoring. The LAPAN A2 micro satellite (70 kg weight) planned to be lauched in 2012 will have the similar characteristics with the LAPAN A1 except the LAPAN A2 is in the equatorial orbit. Next, the polar orbiting LAPAN A3 micro satellite (70 kg weight) will carry the multi-spectral imager payload and be lauched in 2013. Moreover, research analyses of the spectral performa, the geometric and radiometric correction algorithms, the camera band splitter design will be also explained.

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