

# Development of LAPAN-A3/IPB Satellite an Experimental Remote Sensing Microsatellite

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**Abstract:** Continuing development of LAPAN satellite, Satellite Technology Center of LAPAN develops LAPAN-A3/IPB microsatellite. This satellite development continues from the heritage of LAPAN-A1/TUBSAT and LAPAN-A2 bus while improving the payload of the satellite. This satellite will carry several payloads such as an experimental line scan imager payload, high resolution digital space camera with 4 megapixel images, Automatic Identification Systems (AIS), Earth Magnetic Field sensor and Automatic Packet Relay System (APRS) for data communication. Besides developing the satellite, Satellite Technology Center-LAPAN also is preparing systematic image calibration procedure for the line scan imager, while Agriculture University in Bogor (IPB) will prepare image application research for LAPAN-A3/IPB satellite. This paper will describe the development of LAPAN-A3/IPB microsatellite and also importance of its experimental payload for future remote sensing based satellite in Indonesia.

Keyword: LAPAN-A3/IPB, microsatellite