



# **Base Station Electronics (BAS) System Architecture**

ES00004

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# 1 General Setting

## 2 Launch Control Module (LCM)

### 2.1 Architecture Discription

The Launch Control Module (LCM) is providing three feature. First, LCM will help to control the support structure for the rocket, and release it when the rocket ready to launch. LCM also will control the injection of the rocket fuel and provide connection to let VSM monitor rocket status.

### 2.2 Naming Method

OA2-LCM-XXXX-[YY-Z]

**XXXX** Project Code.

**YY** Designer name.

**Z** Revision number. It is greek numerals.

## 3 Live Data Module (LDM)

### 3.1 Architecture Discription

The Live Data Module (LDM) allow flight control personnel to access the rocket status during the flight. It has OA-II WLS system for communication with the rocket. It also allow flight control personnel to profrom some critical action before and during the flight.

### 3.2 Naming Method

OA2-LDM-XXXX-[YY-Z]

**XXXX** Project Code.

**YY** Designer name.

**Z** Revision number. It is greek numerals.

## 4 Vehicle Status Module (VSM)

### 4.1 Architecture Discription

The Vehicle Status Module (VSM) have two part. The pre-flight part is connect to the LCM and access the internal electronics. It will work with the COM in OA-II VEH to proform critical action in any failure scenario. The post-flight part is connect to the LDM. It will get data from the

### 4.2 Naming Method

OA2-VSM-XXXX-[YY-Z]

**XXXX** Project Code.

**YY** Designer name.

**Z** Revision number. It is greek numerals.