



ORBiT Glossary

AD000003

Rev: A01
Gabriel Smolnycki
2019-08-28

Contents

1	Introduction	2
1.1	Scope	2
1.2	Purpose	2
1.3	Revision History	2
2	Acronyms	3
3	Words	4

1 Introduction

1.1 Scope

This document covers all special terminology used by ORBiT.

1.2 Purpose

Due to the large variety of specialized terminology used, this document provides basic definitions for any specialized acronyms or terminology used by ORBiT. This central resource should be regularly updated so as to reduce confusion and improve communication.

1.3 Revision History

Rev	Author	Approver	Changes	Date
A01	Gabriel Smolnycki		Initial draft	

Table 1: Summary of Revision History

2 Acronyms

APU	Actuator Power Unit
BAS	Base Station Electronics
BIST	Built-in self test
BPS	Back-plane System
COM	Computing and Operation Module
DAU	Data Acquisition Unit
DRU	Data Record Unit
FRU	Failure Recover Unit
GTS	Ground Testing System
LCS	Launch Control Station
MCU	Main Control Unit
MCF	Main Control Facility
OA-I	ORBiT Avionics System I
OA-II	ORBiT Avionics System II
PAM	Telecommunication and Acquisition Module
PF	Payload Frame
PM	Payload Modules
PMU	Power Manager Unit
PPU	Pyrotechnic Power Unit
RCS	Radio Communication System
SFU	Sensor Fusion Unit
TAM	Power and Actuator Module
TCU	Telecommunication Unit
TTS	Terrestrial Telemetric Station
VEH	Vehicle Electronics

3 Words

ADC Analog to Digital Converter

Basic Unit The basic unit is indicate this unit finish the most fundamental function of this module.

DAC Digital to Analog Converter

ECC Error-correcting code

eMMC embedded Multi-Media Controller

Feature Unit The feature unit is adding more features to the module.

GNU Radio a free software development toolkit to implement software-defined radios

GNSS satellite navigation system

SATA Serial AT Attachment

MIPI a type of media interface

NAND NAND flash memory

NOR NOR flash memory

NVMe non-volatile memory express

UART Universal Asynchronous Receiver/Transmitter

UHS Ultra High Speed Class for SD card

UVC USB Video Class

Vehicle The rocket, or launch vehicle

PATA Parallel AT Attachment

Payload Frame Connections all modules in the VEH assembly

PHY physical layer of a IP core

SDR Software Define Radio