

DOT Ground Laser Receiver: Overview and Major Trades

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The Deep-space Optical Terminals (DOT) project will provide high-data-rate optical communications from planetary distances. An overview of the architecture of the ground-based receiver subsystem is presented, along with a conceptual design of the subsystem assemblies. Major trades are described along with the selected approach.

I. Introduction

Optical communications has the potential to increase the achievable data rate from spacecraft at planetary distances by orders of magnitude [1,2,3]. The Deep-space Optical Terminals (DOT) project is intended to be the first demonstration of bidirectional optical communications between Earth and deep space [4]. The top-level requirement is to deliver more than 10 times the data rate of a link-limited state-of-the-art Ka-band system [5] with comparable mass and power burden on the host spacecraft.

The DOT system is composed of four major subsystems, as shown in Figure 1. The DOT Mission Operations Center (MOC) controls DOT operations and performs data analysis and archiving. The Ground Laser Transmitter (GLT) sends an uplink beam to the spacecraft [6]. This beam is used as a pointing reference (i.e., beacon) at the spacecraft, as well as carrying uplink communication data. The Flight Laser Transceiver (FLT) is the DOT subsystem mounted on the spacecraft [7]. It receives the uplink beam and transmits a downlink beam. The Ground Laser Receiver (GLR) receives the downlink light and recovers the communication data. DOT also supports ranging by measuring the time of flight on both the uplink and downlink beams.

An overview of the DOT requirements is given in [4]. In order to perform all of the required demonstrations, the DOT system specifies two sets of requirements on the GLR corresponding to two modes of operation: a high-rate mode and a low-rate mode. The high-rate mode, which is used only for nighttime operations, must provide a net gain of 142 dB to support the maximum DOT downlink data rate of 267 Mb/s. The low-rate mode is used to demonstrate link acquisition over a range of conditions, including Sun-Earth-probe (SEP) angles

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