

High-precision platform for optical communication equipment

Free-Space Optical Communication (FSOC) technology is rapidly gaining popularity as a means of high-speed data transmission over long distances. However, the successful implementation of FSOC ...

1. Introduction xers, modulators, switches, laser diodes and photo diodes play key roles in optical communication systems. InP and si ica platforms have been researched since the 1980s, achieving ...

A suite of carrier-grade modular platforms that support a wide range of services and traffic management features, coupled with the latest generation of efficient, high-capacity coherent optical engines.

The optoelectronic platform, as the key hardware to achieve high-precision optical pointing and stabilisation of the communication link, is crucial to the system performance.

Our FSOC programs are conducted by the multi-disciplinary CACI Photonic Solutions team of physicists and material scientists, along with optical, electrical, and mechanical engineers.

We house over 100 host platforms encompassing 25 NEM vendors. Through our multi-platform integration testing and compatibility, rest assured you will receive top tier quality optical ...

In scenarios where radio communication is disrupted due to natural disasters, such as earthquakes and hurricanes, portable miniature optical communication terminals offer the potential ...

We propose a new free-space optical (FSO) communication system for moving platform tracking, which can achieve high precision aiming and tracking. Our prototype system consists of ...

In this contribution, we propose and demonstrate a multi-target and ultra-high-speed OWC system based on a thin-film lithium niobate (TFLN) OPA. It enables real-time multi-target ...

In this paper, a PAT system based on integrated optical phased array (OPA) and four quadrant detector (QD) is demonstrated. Rapid azimuth beam scanning is achieved by controlling the OPA's 512 ...

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