Optilink

End-to-End Optical Link Calculation

INTEGRASYS
Building success from innovation

CAPEX or SaaS

OPTICAL LINK DESIGN & MANAGEMENT TOOL

Modeling & optimizing optical networks for design, and operation.

www.integrasys-space.com

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Competitive Advantage

- High-precision end-to-end optical link calculation, outperforming traditional RF links.
- Fast simulation turnaround—links are calculated and visualized in seconds.
- One-time license allows unlimited users, reducing recurring costs.
- Automatic, professional PDF reports.
- Web-based access, enabling use from anywhere, or on premises.

Features

- Calculate links from Ground, Sea, Air, and Space.
- Atmospheric models and weather prediction built in.
- Full-duplex optical link calculation with detailed metrics, including SNR and BER.
- Graphical beam, footprint, and coverage visualization; laser diameter and terminal hardware configurable.
- Modeling of weather and environmental effects based on ITU standards.
- Integration of satellite constellations with optimized routing using algorithms.
- Interactive maps for terminal placement and network planning.
- Scenario sharing for quick collaboration and technical support.
- Customizable reports in PDF and Excel.
- Support for hybrid optical-RF configurations as backup links.

Benefits

- Improves network design accuracy, minimizing trial-and-error deployments.
- Reduces simulation time, accelerating decision-making for engineers and sales teams.
- Facilitates repeatable demonstrations and comparisons using saved scenarios.
- Enhances customer understanding through clear visualizations and reports.
- Supports multiple satellite constellations, including LEO, MEO, and and robust communication lasers and PIN- or APD-type detectors.
- Optimizes link performance, power consumption, and hardware sizing over target areas.
- Scalable for multiple users and terminals, enabling enterprise-level deployment, and API.
- Future-ready tool with Docker deployment and cloud integration for easy expansion.

Company Awards

Vision Awards	MOST INNOVATIVE PRODUCT OF THE YEAR	2014
VSAT INDUSTRY AWARDS 2015	TECHNOLOGY INNOVATION OF THE YEAR	2015
VSAT GLOBAL 2017	BEST GROUND TECHNOLOGY OF THE YEAR	2017
WTA	TELEPORT TECHNOLOGY OF THE YEAR	2018
MSUA Mobile Satellite Users Association	GOVERNMENT MOBILE INNOVATION	2022
WTA	TELEPORT TECHNOLOGY OF THE YEAR	2023
MSUA Mobile Satellite Users Association	SATELLITE MOBILE INNOVATION AWARDS	2023
MSUA Mobile Satellite Users Association	NEW SPACE MOBILE INNOVATION AWARD	2024
BROADCASTPRO Manufacturer Awards	BEST CONTRIBUTION TO SUSTAINABLE SATELLITE OPERATIONS	2025
SSPI	BETTER SATELLITE WORLD AWARDS	2025