

# Satellite Link Budget Analysis with SatMaster Pro Training

Telecom Engineering  
Maldives (Maldives)  
08 - 12 Sep 2025

UK Training

# PARTNER

The background of the entire page features a grayscale checkered chessboard. In the foreground, several chess pieces are visible: a silver pawn on the left, a silver pawn in the center, and a large gold king piece on the right. Behind the pieces, there are several concentric, light gray circles that radiate outwards, creating a ripple effect across the background.

## Satellite Link Budget Analysis with SatMaster Pro Training

**Ref:** 321387\_139358 **Date:** 08 - 12 Sep 2025 **Location:** Maldives (Maldives) **Fees:** 4700 Euro

### Course Description

This intensive 5-day course provides comprehensive training on satellite link budget analysis using SatMaster Pro software. Participants will gain in-depth knowledge of satellite communication principles, link budget calculations, and practical applications across various frequency bands and satellite systems.

### Learning Objectives

- Understand fundamental concepts of satellite communications and link budgets
- Master the use of SatMaster Pro software for link budget calculations
- Analyze and optimize satellite network performance across different scenarios
- Apply link budget techniques to real-world satellite communication challenges
- Interpret and troubleshoot link budget results for various satellite systems

### Course Modules

#### Day 1: Introduction to Satellite Communications and Link Budgets

- Satellite communication basics and frequency bands
- Link budget fundamentals and components
- Introduction to SatMaster Pro interface and features
- Basic link budget calculations using SatMaster Pro

#### Day 2: Advanced Link Budget Concepts and Calculations

- Detailed analysis of link budget parameters
- Atmospheric and environmental effects on link budgets
- Modulation and coding techniques in satellite communications
- Hands-on exercises with complex link budget scenarios

#### Day 3: VSAT Systems and Interactive Services

- VSAT network architecture and link budget considerations
- Two-way interactive satellite services
- Link budget analysis for VSAT networks using SatMaster Pro
- Optimization techniques for VSAT link budgets

#### Day 4: Mobile Satellite Systems and Non-GEO Constellations

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- Link budgets for mobile satellite terminals
- LEO and MEO satellite constellation analysis
- Dynamic link budget calculations for non-GEO systems
- Practical exercises using SatMaster Pro for mobile and non-GEO scenarios

## **Day 5: Advanced Applications and Real-world Case Studies**

- Multi-beam satellite systems and interference analysis
- Link budget considerations for emerging satellite technologies
- Troubleshooting and optimizing link budgets
- Case studies and group projects using SatMaster Pro

## **Practical Wins for Participants**

- Ability to perform accurate link budget calculations for various satellite systems
- Proficiency in using SatMaster Pro software for professional applications
- Skills to optimize and troubleshoot satellite network performance
- Confidence in applying link budget analysis to real-world satellite communication challenges

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[www.blackbird-training.com](http://www.blackbird-training.com)



[training@blackbird-training.com](mailto:training@blackbird-training.com)



+44 7480 775526 / +44 7401 177335