ROHDE&SCHWARZ

Make ideas real

R&S®SATCOM Link Observer

COMPACT SOLUTION FOR QUALITY OF SERVICE MONITORING

R&S®MSR4multipurpose satellite receiver and R&S®GSACSM communications system monitoring software. Seamless combination of hardware and software customizable to individual requirements.

INNOVATIVE TECHNOLOGY FOR FLEXIBLE AND SECURE OPERATIONS

Rohde & Schwarz is a reliable and customer-orientated supplier of turnkey satellite communications monitoring systems. Our longstanding and sustained success here is the result of permanent investment in and development of new technologies.

The company has a proven track record in manual and automated quality-of-service monitoring for satellite communications. Secure satellite based networks are vital to stable and mission-critical communications between a mission site and base.

To meet these exacting requirements, Rohde & Schwarz has an all-in-one-solution: the R&S®SATCOM Link Observer for convenient satellite communications monitoring. The compact solution provides reliable quality monitoring, communications analyses and fault detection for execution availability in SATCOM link operations.

THE ALL-IN-ONE QUALITY-OF-SERVICE MONITORING SOLUTION

The R&S®SATCOM Link Observer from Rohde&Schwarz provides operational satellite communications monitoring, a seamless combination of hardware and software to support customers in their daily tasks and challenges.

The solution includes the R&S®MSR4 multipurpose satellite receiver and R&S®GSACSM communications system monitoring software suite. The R&S®SATCOM Link Observer is software-defined defence, enabling continuous performance improvement over its lifetime.

R&S®MSR4 Multipurpose Satellite Receiver
The R&S®MSR4 multichannel receiver is optimized for SATCOM applications with four individually tunable L-Band inputs, each with 200MHz bandwidth. The receiver's compact size, onboard communications monitoring system hosting and cutting-edge RF performance, make it ideal for the R&S®SATCOM Link Observer.

R&S®GSACSM Communications System Monitoring

R&S®GSACSM is a software solution for remote spectrum monitoring and signal analysis. The software supports classic spectrum analyzer functions, trapping systems, as well as advanced signal detection and identification algorithms. The user management system predefines measurement jobs to comfortably guide other users through work routines for user friendly, quality of service monitoring with the R&S®SATCOM Link Observer, even in tough situations.

ASSISTANCE IN KNOWN AND UNKNOWN SIGNAL ENVIRONMENTS

Benefits

▶ The R&S®SATCOM Link Observer can be conveniently operated with a modern, adaptive GUI and guided workflows for the implementation of operator defined use cases.

▶ Operators can detect upcoming signal degradation, giving them time to react and ensure quality of service.

▶ The R&S®SATCOM Link Observer has sophisticated signal analysis and troubleshooting capabilities to react quickly and reestablish communications.

▶ As a software-defined device, the R&S®SATCOM Link Observer can add several features without any hardware changes.

Highly flexible remote spectrum monitoring

The server client concept allows users to access an R&S®SATCOM Link Observer from anywhere in the world, even via satellite. Users can monitor up to four inputs with the same device for greater flexibility. Various RF trace representations enable quality parameter measurements in the RF spectrum, allowing for continuous monitoring in tables and masks and export reporting capabilities.

User friendly visualization for satellite transponder analyses

The R&S®SATCOM Link Observer autonomously scans transponder signals and identifies carriers, which are visualized in color-coded charts and lists. The chart and list elements make identifying each carrier easy. The solution uses I/Q data for signal analysis and parameter reporting. A constellation diagram as well as a comparison of C/N to SNR can also be displayed to detect even baseband irregularities.

Rohde & Schwarz

The Rohde & Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded more than 85 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design

► Environmental compatibility and eco-footprint
► Energy efficiency and low emissions
► Longevity and optimized total cost of ownership

Certified Quality Management	Certified Environmental Management
ISO 9001	ISO 14001

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