

# R&S®TS8980LBS

## Test System

### Location-based services: features and functions



**ROHDE & SCHWARZ**

## Option overview

Software licenses for location-based services (LBS)	R&S®TS8-KM28	1517.1529.02
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## VzW LTE LBS performance test plan V 6.0

### R&S®TS8-KM928 (1517.1529.02)

VzW LBS performance tests are performed on an R&S®TS8980. As a minimum configuration for this option, the following is needed: an R&S®CMW500 protocol tester with LTE FDD stack incl. 2x2 MIMO (R&S®CMW-KP510), an R&S®CMW-B510A digital I/Q interface, 2x frontend basic, as well as R&S®CMW-B450 with R&S®CMW-KA100, R&S®CMW-KA150 and R&S®CMW-KM050. In addition, the following equipment is required: an R&S®AMU200A baseband signal generator and fading simulator with 2x B13, 1x B14, 1x B15, 2x B17, 2x B18, 1x B81, 2x K62, 2x K71 options, as well as an R&S®SMBV satellite simulator with R&S®SMBV-B103, R&S®SMBV-B10, R&S®SMBV-B92, R&S®SMBV-K44, R&S®SMBV-K65, R&S®SMBV-K66, R&S®SMBV-K91 and R&S®SMBV-K92. Furthermore, a control PC, R&S®TSCTRLPC1 equipped with the R&S®CMW-KT014 automation manager, the R&S®CMW-KT11 message analyzer, the R&S®TS8-KT100 CONTEST base software and the R&S®TS8-KT140 CONTEST summary report (recommended) are required.

VzW LBS test plan section	Test case	Comments
2.1.1	GPS accuracy test – tracking mode, hot start	
2.1.2	GPS dynamic range test – tracking mode, hot start	
2.1.3	GPS sensitivity test – tracking mode, hot start Procedure 1 – transmitter on, no UDP data transfer Procedure 2 – simultaneous bidirectional UDP transfer	
2.1.4	GPS multipath test – tracking mode, hot start	
2.1.5	GPS acquisition test – cold start	

## Ordering information

### R&S® TS8980LBS setup

Designation	Type	Order No.
<b>Hardware</b>		
Wideband Radio Communication Tester, with options	R&S® CMW500	1201.0002K50
Baseband Signal Generator and Fading Simulator, with options	R&S® AMU200A	1402.4090K02
Vector Signal Generator, with options	R&S® SMBV100A	1407.6004K02
Control PC incl. monitor, keyboard and mouse	R&S® TSCTRLPC1	1117.8307.03
Universal Power Sensor	R&S® NRP-Z21	1137.6000.02
USB Adapter for R&S® NRP-Zxx sensors powered via USB	R&S® NRP-Z4	1146.8001.02
Dual-Channel Analyzer/Power Supply with accessories	R&S® NGMO2	
Cable Set	R&S® CS-LBS	1517.9607.02
<b>Software options</b>		
CONTEST	R&S® CONTEST	1510.8428K02
CONTEST Base Software	R&S® TS8-KT100	1510.7067.02
CONTEST Summary Report	R&S® TS8-KT140	1513.7968.02
CONTEST LTE FDD13 GPS VzW LBS Test Cases Conducted	R&S® TS8-KM928	1517.1529.02

<b>Service options</b>		
Extended Warranty, one year	R&S® WE1CMW500	Please contact your local Rohde & Schwarz sales office.
Extended Warranty, two years	R&S® WE2CMW500	
Extended Warranty, three years	R&S® WE3CMW500	
Extended Warranty, four years	R&S® WE4CMW500	
Extended Warranty with Calibration Coverage, one year	R&S® CW1CMW500	
Extended Warranty with Calibration Coverage, two years	R&S® CW2CMW500	
Extended Warranty with Calibration Coverage, three years	R&S® CW3CMW500	
Extended Warranty with Calibration Coverage, four years	R&S® CW4CMW500	

#### Extended warranty with a term of one to four years (WE1 to WE4)

Repairs carried out during the contract term are free of charge <sup>1</sup>. Necessary calibration and adjustments carried out during repairs are also covered. Simply contact the forwarding agent we name; your product will be picked up free of charge and returned to you in top condition a couple of days later.

#### Extended warranty with calibration (CW1 to CW4)

Enhance your extended warranty by adding calibration coverage at a package price. This package ensures that your Rohde & Schwarz product is regularly calibrated, inspected and maintained during the term of the contract. It includes all repairs <sup>1</sup> and calibration at the recommended intervals as well as any calibration carried out during repairs or option upgrades.

For product brochure, see PD 5214.2833.12 and [www.rohde-schwarz.com](http://www.rohde-schwarz.com)

<sup>1</sup> Excluding defects caused by incorrect operation or handling and force majeure. Wear-and-tear parts are not included.

## Service you can rely on

- ▮ Worldwide
- ▮ Local and personalized
- ▮ Customized and flexible
- ▮ Uncompromising quality
- ▮ Long-term dependability

## About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

## Environmental commitment

- ▮ Energy-efficient products
- ▮ Continuous improvement in environmental sustainability
- ▮ ISO 14001-certified environmental management system

Certified Quality System  
**ISO 9001**

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