

#### Service you can rely on

- | In 70 countries
- | Person-to-person
- | Customized and flexible
- | Quality with a warranty
- | No hidden terms

#### 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, radio-monitoring and radiolocation, as well as secure communications. Established 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

# Improve your performance – test solutions for CDMA2000®

- | LTE
- | WiMAX
- | HSPA
- | MIMO



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\*0.14 €/min within German wireline network; rates may vary in other networks (wireline and mobile) and countries.



75 Years of Driving Innovation

# Test and measurement solutions for CDMA2000®

# CDMA2000® New technical challenges

Product	Development of RF and baseband	Verification and conformance tests	Manufacturing and service	Network deployment and optimization
<b>Signal generators</b>				
R&S®SMU200A vector signal generator	●	●	●	●
R&S®SMATE200A vector signal generator	●		●	
R&S®SMJ100A vector signal generator	●		●	●
R&S®AFQ100A I/Q modulation generator	●		●	
R&S®AMU200A baseband signal generator and fading simulator	●	●	●	
<b>Signal/spectrum analysis</b>				
R&S®FSH handheld spectrum analyzer				○
R&S®FSL spectrum analyzer	○		○	○
R&S®FSMR measuring receiver	●	●		
R&S®FSUP signal source analyzer	●			
R&S®FSQ signal analyzer	●	●	●	
R&S®FSG spectrum analyzer	●	●	●	
R&S®FSU spectrum analyzer	●	●	●	
R&S®FSP spectrum analyzer	●		●	●
R&S®FMU36 baseband signal analyzer	●			
<b>Network analysis</b>				
R&S®ZVA vector network analyzer	○		○	
R&S®ZVB vector network analyzer	○		○	
R&S®ZVT vector network analyzer	○		○	
R&S®ZVL vector network analyzer	○		○	
<b>Radiocommunications test</b>				
R&S®CMU200 radio communication tester	●	●	●	
R&S®CMU200V10 radio communication tester			● <sup>1)</sup>	
R&S®CMU200V30 radio communication tester	●	●	● <sup>2)</sup>	
R&S®CMW500 radio communication tester	●		●	
<b>Power supplies</b>				
R&S®NGMO power supply	○		○	
R&S®NGPQ power supply	○		○	
<b>Power meter</b>				
R&S®NRP power meter	○		○	
R&S®NRP-Z power sensors	○		○	
<b>Production test system</b>				
R&S®TS712x shielded RF test chamber	○		○	
R&S®TS7180 production test system			○	
<b>Audio test</b>				
R&S®UPV audio analyzer	●	●	●	
<b>Coverage measurement</b>				
R&S®ROMES coverage measurement software				●
R&S®TSMC radio network analyzer				●
R&S®TSMQ radio network analyzer				●
R&S®TSMU radio network analyzer				●
<b>EMC test</b>				
R&S®ESU EMI test receiver		○		
R&S®ESCI EMI test receiver		○		
R&S®ESPI test receiver		○		
R&S®TS9975 test system		○		
R&S®TS9982 test system		○		
R&S®IMS integrated measurement system		○		

○ General use ● CDMA2000®-specific use

<sup>1)</sup> For service purposes. <sup>2)</sup> For production.

The CDMA2000® family of standards addresses a 3G technology that features advanced voice communications and high-speed data services. With 1xEV-DO Rev. A now rolled out in commercial networks, a system based on quality of service (QoS) stands available that covers all requirements of a modern cellular network.

CDMA2000® 1xRTT and 1xEV-DO are high-performance standards that simultaneously implement broad flexibility, coverage, and outstanding spectral efficiency. They therefore require the use of state-of-the-art test and measurement equipment. This equipment must be able to handle diverse tasks that range from RF performance verification and fading simulation to end-to-end data testing. This makes it possible to test not only chipsets, handsets, and base stations, but also network quality from a mobile device perspective. Furthermore, the need to verify data links based on the Internet protocol and to perform audio analysis for the verification of speech quality is becoming an increasingly significant aspect

The comprehensive portfolio of products from Rohde & Schwarz features optimum tools for every step of the way during the development, validation, and production of terminal equipment and base stations, as well as in network planning. These tasks

demand signal generators, spectrum analyzers, and radiocommunications testers. The Rohde & Schwarz product portfolio also includes highly configurable radio network analyzers for optimizing the network. These analyzers verify coverage and check for interferences. In addition, Rohde & Schwarz stands at your side with extensive support services that enable you to attain your goals. Our sales engineers will gladly help you put together a customized package that meets your exact needs.

**For further information, please visit:**  
[www.technologies.rohde-schwarz.com](http://www.technologies.rohde-schwarz.com)

Please see also other Rohde & Schwarz technology brochures on HSPA, LTE, WiMAX, etc. Rohde & Schwarz offers you solutions for all standards.

Application notes	
Description	Number
CDMA2000® receiver tests under fading conditions with the R&S®CMU and the R&S®ABFS	1MA64
CDMA2000® packet data testing with the R&S®CMU200	1CM51
1xRTT/1xEV-DO measurement of time relationship between CDMA® RF signal and PP2S clock	1CM33
1xRTT/1xEV-DO hybrid mode testing	1CM65
1xEV-DO packet data testing	1CM64
1xEV-DO test solutions	1MA112

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