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## R&S® FSL-K92 WiMAX Application Firmware

### Transmitter measurements on WiMAX OFDM signals

The R&S® FSL-K92 option expands the R&S® FSL spectrum analyzer by adding the capability to perform spectrum and modulation measurements on signals in line with the IEEE 802.16-2004 OFDM standard. Offering an unmatched price/performance ratio also for this appli-

cation as well as remote control of all functions via GPIB or LAN, the R&S® FSL is the ideal solution in production test applications. Results are output in scalar form and also in a variety of graphical representations, which makes the R&S® FSL suitable also for R&D and service applications.

The functional and control concept as well as the remote control commands are largely identical with the R&S® FSQ signal analyzer with the R&S® FSQ-K92 option.

Measurement
• IEEE 802.16-2004 OFDM/IEEE 802.16e-2005 OFDM
Output power
Spectrum mask with limit lines and pass/fail indication
Spectrum flatness with limit lines and pass/fail indication, group delay
Adjacent-channel power with noise correction (up to five adjacent channels can be defined)
EVM
EVM display
• Versus carrier or time
Constellation versus carriers

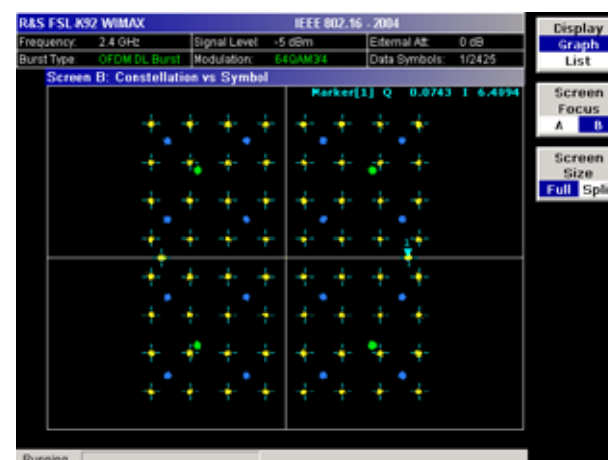
Constellation diagram
• For individual or all carriers
• For individual or all modulation modes
Selectable tracking: phase, level, timing
RF carrier leakage
Carrier frequency error, symbol clock error
CCDF and crest factor
Bit stream (color-coded to indicate modulation)
Overview of all bursts
FCH information
Automatic selection of modulation

## Ordering information

Designation	Type	Order number
IEEE 802.16-2004 OFDM WiMAX Application Firmware	R&S® FSL-K92	1302.0236.02



The result summary provides a quick overview of the main measurement results



In the constellation diagram, results of several users can be displayed simultaneously, even when employing different modulation modes (64QAM, 16QAM, QPSK, BPSK)



The burst summary list shows EVM and power results separately for the individual users



For specifications, see PD 5213.7254.22 and [www.rohde-schwarz.com](http://www.rohde-schwarz.com) (search term: FSL-K92)



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