

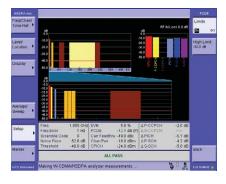
# Agilent Technologies E7495B Base Station Test Set

E7495B Option 240 — W-CDMA Analyzer E7495B Option 245 — HSDPA Analyzer E7495B Option 250 — W-CDMA/HSDPA OTA

#### W-CDMA and HSDPA

To meet the ever growing needs of 3G UMTS Network Operators deploying high speed data services, the industry-standard E7495B Base Station Test Set now also provides comprehensive HSDPA forward link testing and non-intrusive WCDMA and HSDPA Over-the-Air (OTA) measurements. The E7495B option 245 allows technicians and engineers to easily observe and analyze Node B (BTS) HSDPA performance and verify proper network operation.

W-CDMA and HSDPA test functionality includes a full set of parametric measurements such as pilot, sync, and code domain power measurements, scrambling code determination, error vector magnitude, carrier feed through, and carrier frequency error. New HSDPA measurements support bursted mode with sub frame alignment, allowing for measurements on real traffic channels. A "Zoom" feature provides detailed analysis of 32, 64 or 128 channel segments. A dedicated visual display allows monitoring of power levels in all control channels. Furthermore, an active code channel table enables users to observe traffic by type and CDP level.



W-CDMA/HSDPA Analyzer with dedicated control channel display, zoom and metrics, negates the need to switch between different screens to view results. CDP low noise floor means the E7495B can detect traffic channels other test tools can not.



Active code channel table illustrates code, type and CDP level.

# Metrics

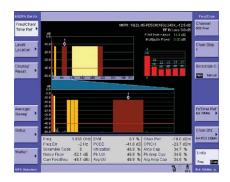
- · Error vector magnitude (EVM)
- · Peak code domain error (PCDE)
- · Carrier frequency error
- Scrambling code (automatic detection)
- · Carrier feed through
- Code domain noise floor
- · Channel power
- Control channel levels

# Displays

- Code domain power displaying 512 code channels
- Zoom function for 32, 64 or 128 channel segments. Level expressed in dBm (absolute) or dB (relative to pilotchannel)
- · Dedicated control channel level display
  - Common pilot channel (CPICH)
  - Primary and secondary common control physical channels (P-CCPCH and S-CCPCH)
  - · Paging indicator channel (PICH)
  - Primary and secondary synch channels (P-SCH and S-SCH)
- HSDPA CDP traffic channels detection (types distinguished by color from W-CDMA traffic)
  - · Active HS-PDSCH QPSK traffic channels
  - Active HS-PDSCH 16QAM traffic channels



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WCDMA OTA measurement capabilities include primary signal dominance qualification, scrambling code analyzer, and vital result metrics, all on one easy-to-read display

# W-CDMA and HSDPA over-the-air (OTA)

More than just a scrambling code analyzer, the E7495B's W-CDMA/HSDPA OTA test functionality includes a full set of parametric measurements and a dedicated visual display allowing monitoring of pilot dominance and an understanding of how multi-path power is impacting the validity of the OTA measurements.

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

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Metrics	<ul> <li>Error vector magnitude (EVM) estimate</li> <li>Channel utilization metrics</li> <li>Amplifier capacity metrics</li> <li>Scrambling code (automatic detection, top six)</li> </ul>
Displays	<ul> <li>Code domain power displaying 512 code channels with zoom function for 32, 64 or 128 channel segments</li> <li>Top six scrambling codes</li> <li>Pilot dominance and multi-path power levels</li> </ul>
Ordering Instructions	• F7495B Ontion 240 – W-CDMA analyzer

# Ordering Instructions

(note upgrades are denoted with the prefix E7495XU) E7495B Option 240 – W-CDMA analyzer

• E7495B Option 245 – adds HSDPA measurements to #240 and #250 (note, requires #240)

 E7495B Option 250 – W-CDMA OTA (note, requires #240, recommend #813)



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