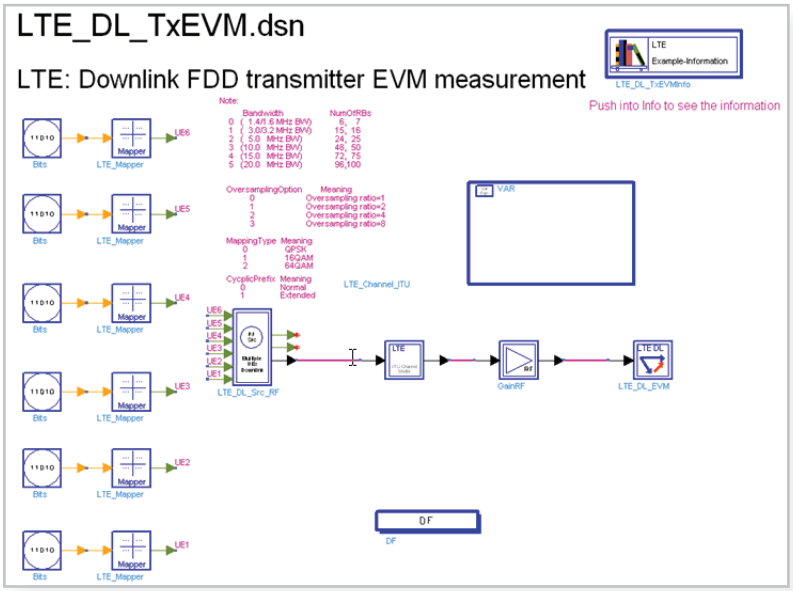
W2368 LTE Wireless Library for ADS



3GPP-LTE Wireless Library Element W2368 provides the full RF-PHY verification for the latest 3GPP long term evolution (LTE) cellular standard. LTE encompasses high-speed data, high-capacity voice and multi-media broadcast services. This wireless library provides the "golden standard" signal processing models and preconfigured simulation for Agilent's Advanced Design System (ADS) EDA software to verify the RF components of the physical layer for compliance against the 3GPP LTE standards.

Value

- Wider bandwidths, varying formats, and higher data efficiencies for LTE drives greater design and verification needs.
- Validates to the market that your product will effectively meet the need for the latest LTE standard
- Saves you time and money by making verification a part of the design process and allows testing existing models to the new standard
- Verify both developed hardware and designs by using ADS and connected solutions. This enables you to drive efficiency with co-development and ensuring proper integration.

Features

- Supports FDD and TDD mode in frame structure type 1
- Supports 1.4 MHz, 1.6 MHz, 3 MHz, 3.2 MHz, 5 MHz, 10 MHz, 15 MHz, and 20 MHz bandwidth
- Cyclic prefix (normal or extended)
- Modulation type (QPSK, 16QAM, or 64QAM)
- Downlink synchronization signals (P-SCH , S-SCH)
- Supports partial resource block mode when the total number of resource blocks is odd
- Downlink reference signal
- Uplink reference signal (Zadoff-Chu sequence)
- Downlink EVM and uplink EVM measurement

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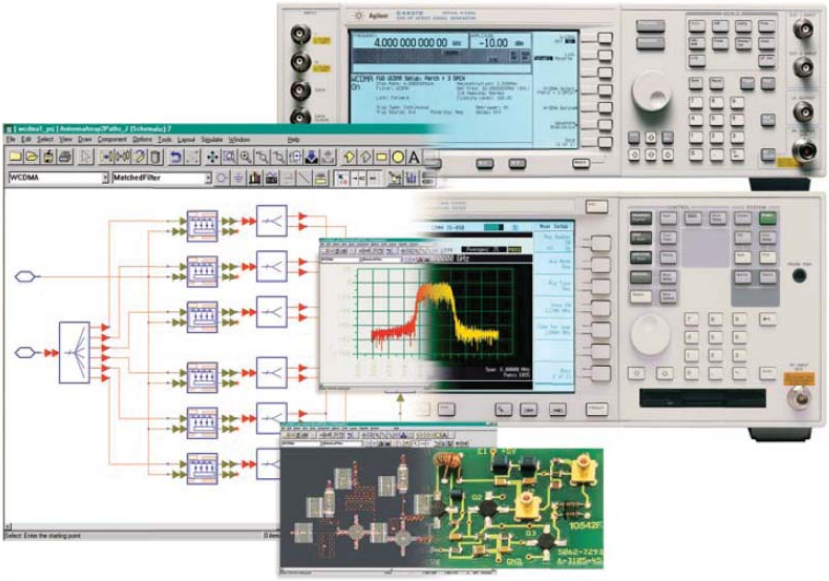
Recommended packages

- **W2361 and W2368** – Add on Ptolemy and LTE library to add verification capability to existing ADS seat that has circuit envelope
- **W2207 and W2368** – Complete verification solution includes ADS core, harmonic balance, circuit envelope, momentum, and LTE library



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If you are currently using math tools for system design, or are interested in a source code approach to LTE, you may be interested in the baseband approach of Agilent SystemVue. For more information, visit: **http://www.agilent.com/find/eesof-systemvue-lte-baseband-exploration-library**, or request the datasheet at: **http://cp.literature.agilent.com/litweb/pdf/5990-4283EN.pdf**

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