Accuver

XCAT-MAIS

Massive MIMO air interface simulator

XCAT-MAIS is a leading air interface simulation solution that allows engineers to replicate realistic radio wave propagation in laboratory environments. Its system architecture is fully scalable and flexible, with individual phase and amplitude adjustment per path, replicating the wireless channel environment of UEs. XCAT-MAIS offers various real-world test scenarios such as fading, path loss, mobility, and M-MIMO simulations. The operator can simulate complex field tests in the lab using XCAT-MAIS.

XCAT-MAIS can be seamlessly integrated and utilized as a Lab Automation Solution (XCAL-ART) in conjunction with other Accuver solutions, including XCAL-MTS, XCAT-SmartShield, Test Manager, and XCAP-AMS.

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Features

- * Automated self-calibration for CR satisfaction (5G)
- * User-adjustable amp/phase
- * Monitor BS/UE inputs & outputs at each RF port
- * User-defined scenarios and associated channels
- * Automatic/manual call set up
- * Selectable KPI logging and in-depth Analyzer
- * Easy & simple system expansion by adding slot cards

gNB gNB gNB i gNB i

Title Spec. Frequency 300 ~ 6,000MHz **Channel Bandwidth** 100MHz Insertion Loss 0dB Path Loss control 0 ~ 89.5 dB, 0.5 dB step System Delay 3.1 us $|\Delta$ Amplitude| < 0.35 dB, $|\Delta$ Phase| < 3 degree using external Calibration tolerances calibration hardware **RF** Interface Scalable by 4, up to 64 per chassis, TRX port Max. power +0 dBm (CW) per RF port (input/output) **Channel Models** ITU Ped. A/B, Veh. A/B, EPA, EVA, ETU, HST, 2D/3D SCM Multi-path 8 per connection, each ranges from 0 to 25 us **Doppler Frequency** Up to 450 Hz (1350 Hz for HST)

Functions

- * Support latest wireless technology
 - : 5G, Massive-MIMO, Beamforming
- * Simulate various test environment
 - : Scattering, Reflection, Diffraction simulation by Multi-path fading channel
- * Distributed lab environment
 - : With MAIS, BS and UE don't have to be co-located, allowing international users to log in and access system resources at any time