

XCAT-AIS C

COMPACT MULTI-CELL / MULTI-UE
AIR INTERFACE SIMULATOR

PRODUCT BROCHURE V.1.0



Accuver

XCAT-AIS C

COMPACT MULTI-CELL / MULTI-UE AIR INTERFACE SIMULATOR

XCAT-AIS C is a compact channel emulator designed to replicate real-world signals in a lab, allowing for repeatable playback and analysis. It emulates the mobility of multiple UEs and BS with just a few clicks, making it the simplest solution for conducting handover tests. With its portability and ease of installation, XCAT-AIS C provides a cost-effective lab testing environment that supports a wide range of testing scenarios.

SYSTEM ARCHITECTURE



KEY FEATURES



RF attenuator

Support Path loss of radio wave propagation



Port configuration

4x4, 2x2, 1x1 antenna testing



Ethernet connection

Control with IP configuration



Easy port reversing

One-click BS->UE Switching menu



Test scenarios

Support various test scenarios



API interface

SCPI, API for diverse control functions



Easy scenario setting

Scenario manipulation with intuitive interface



Modular design

Enhanced scalability

Why XCAT-AIS C?

The XCAT-AIS C allows you to emulate mobile radio coverage within your test lab environment. It supports various mobile communication standards, including 2G, 3G, 4G, 5G, and any air interfaces. To prevent interference, signals must be directly connected via cables from different signal sources, such as base stations or signal generators, through the XCAT-AIS C to mobile devices.

The XCAT-AIS C is designed to meet the diverse needs of mobile radio coverage emulation in test lab environments. It supports 4x4, 2x2, and 1x1 port configurations, enabling both single and multiple antenna testing to accommodate a wide range of testing requirements. The system features an attenuation range of up to 90dB, facilitating various tests by allowing precise control over signal strength and integration with other testing tools and systems. Its compact configuration ensures easy installation and mobility, making it a convenient choice for multiple different lab setups. The XCAT-AIS C also offers easy scenario manipulation through an intuitive interface-based Test Manager, enhancing efficiency and user experience. For those requiring advanced control functions, the system provides API and SCPI interfaces, enabling seamless integration with other systems.

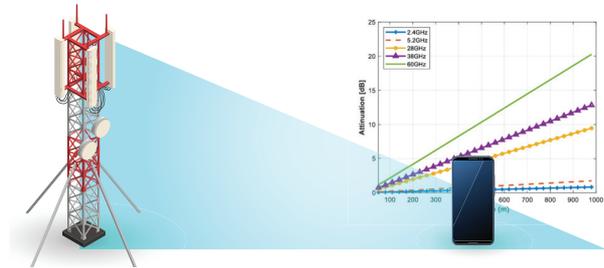


What XCAT-AIS C do?

HANDOVER TEST



SIGNAL ATTENUATION TEST



A 'handover test' in telecommunications assesses how mobile devices transition between network cells, ensuring uninterrupted calls and data sessions. XCAT-AIS C supports Multi-Cell / Multi-UE testing with up to 4x4 path ports, facilitating efficient switching between cells or devices. Moreover, XCAT-AIS C effectively manages complex RF signals found in modern networks, including MIMO and Carrier Aggregation technologies. It offers advanced automation features for reliably simulating complex handover scenarios repeatedly.

Assesses how effectively a communication signal can maintain its strength and quality over a specified distance or under varying conditions, providing crucial insights into the performance and reliability of communication systems.

XCAT-AIS C enhances signal attenuation testing with precise RF attenuation control. It supports various configurations like 4x4, 2x2, and 1x1, and operates in normal and reverse modes, switching between UE and Cell with simple clicks. By accurately simulating real-world signals in lab environments, XCAT-AIS C automates adjustments, integrates seamlessly into test setups, speeds up testing, improves accuracy, and ensures robust performance across Wi-Fi, LTE, 5G, and other technologies.

Specification

Model 0408



Model 0808



Model 0412



- Normal mode / Reverse mode
- Path Port: 4x4, 2x2, 1x1
- 0408 : eNB/gNB 4 Path to UE 8 Path
- 0804 : eNB/gNB 8 Path to UE 4 Path

- Normal mode / Reverse mode
- Path Port: 4x4, 2x2, 1x1
- 0408 : eNB/gNB 4 Path to UE 8 Path
- 0804 : eNB/gNB 8 Path to UE 4 Path

- Normal mode / Reverse mode
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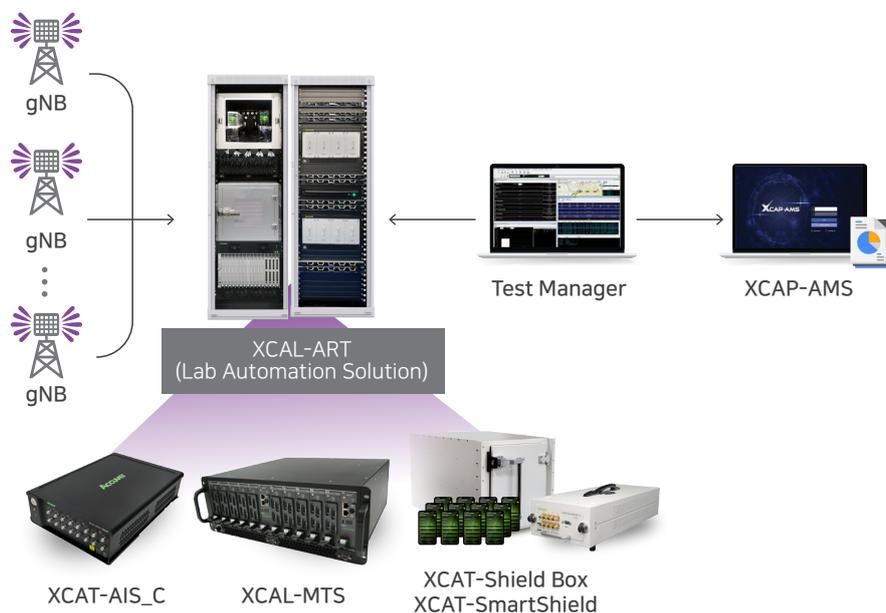
Titles		Spec	
Frequency		600 ~ 6,000 MHz	
RF Signal Input Range		< +20dBm	
Attenuation Range		< 90dB	
Minimum Step Size		0.5dB	
Minimum Setting Time		< 0.5s	
Power Consumption		9V / 200mA Below	
Size		216 x 82 x 310.3 (W x H x D, mm)	
Weight	0808	4.5 kg	
	0408	5.0 kg	
	0412	6.5 kg	
Insertion Loss	0808	1GHz	-6 dB
		2GHz	-7 dB
		3GHz	-8 dB
		4GHz	-9 dB
		5GHz	-10 dB
		6GHz	-11 dB
	0408	1GHz	-9 dB
		2GHz	-10 dB
		3GHz	-11 dB
		4GHz	-13 dB
		5GHz	-14 dB
		6GHz	-15 dB
	0412	1GHz	-12 dB
		2GHz	-13 dB
		3GHz	-15 dB
		4GHz	-16 dB
		5GHz	-18 dB
		6GHz	-19 dB

XCAL-ART

LAB AUTOMATION SOLUTION

XCAT-AIS C can be used as a component of XCAL-ART, Lab Automation solution of Accuver.

With Full package of Lab automation solution, XCAL-ART can produce repeatable results with automated and remote control from a distributed laboratory setup



XCAT-AIS C / XCAT-MAIS

Replication of mMIMO and mobility scenarios

XCAL / XCAL-PU12 / XCAL- MO III / XCAL-MTS

Massive UE control and measurement

XCAT-SHIELD BOX / SMART SHIELD

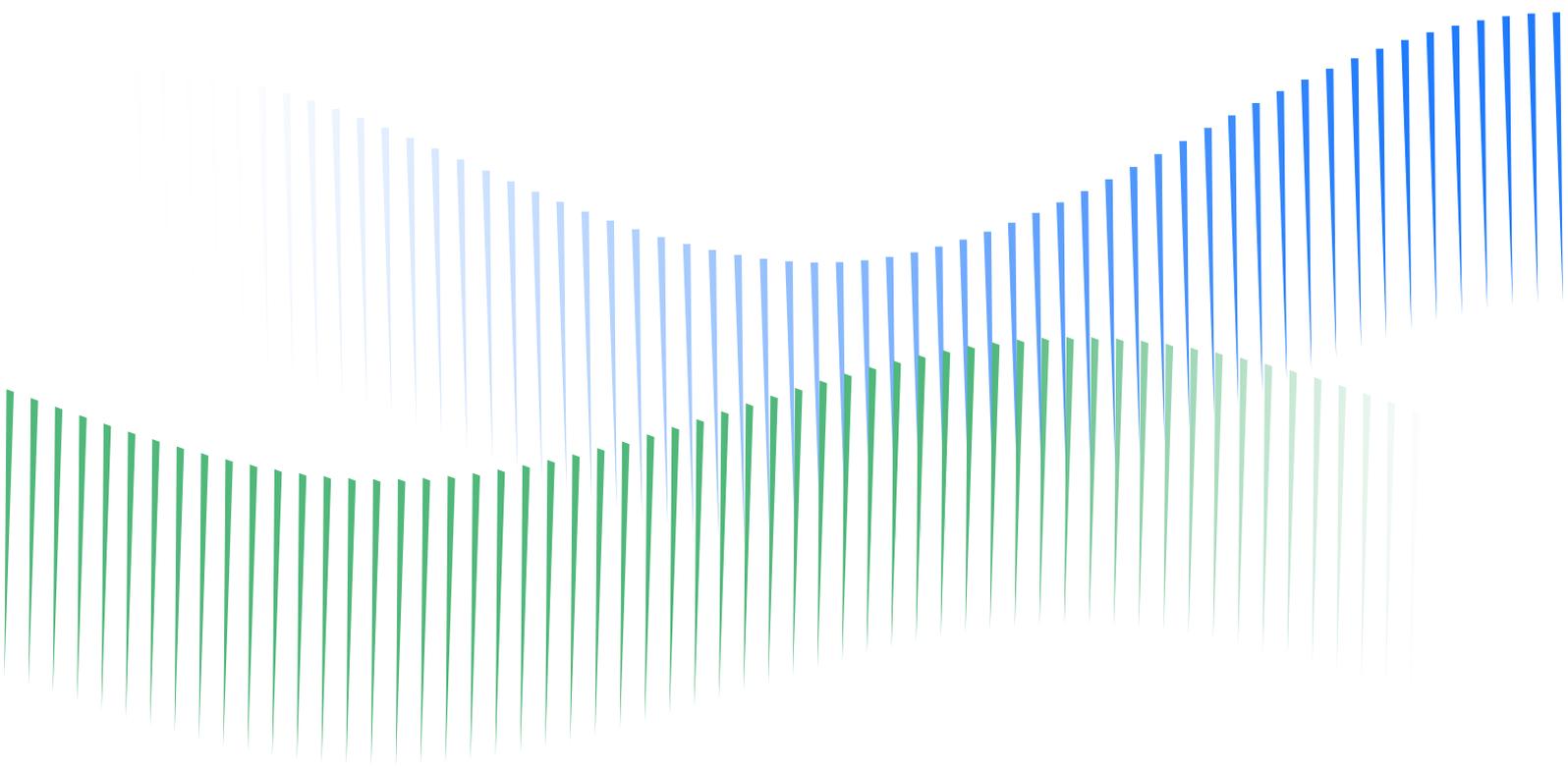
Complete RF isolation and custom spacing

TEST MANAGER

Automated test activation

XCAP-AMS

Integration of analyzed test results, report generation



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