

XCAT-IXA

Cloud based portable spectrum analyzer

XCAL-IXA is a portable real-time spectrum analyzer that supports General Spectrum Feature, PCI Scanning Feature, and Multi-Viewer Feature. With a separate display, XCAT-IXA enables seamless connectivity to any Android device, which can serve as a display and controller. This advanced solution integrates with a cloud server, providing autonomous measurement capabilities. XCAT-IXA provides an opportunity to reduce OPEX and CAPEX across the network lifecycle, from deployment to maintenance and upgrades, by eliminating upfront equipment costs and staffing expenses.

Features

- * High portability
- * Easy to use
- * Upload measurement result to cloud server and monitor it through Remote PC in real-time
- * PCI scan of neighbor cell
- * Minimize human error by automated measurement
- * OTA(Over the Air) measurement

Functions

- * Spectrum Analyzer
 - : Spectrum / Channel Power / OBW / ACLR / SEM / SE
- * Modulation Analyzer
 - : 5G NR : Constellation / Error Vector / Multi View / SSB Location Auto Search
 - : LTE : Constellation / Error Vector / MQS
 - : WCDMA : Code Domain Power / Modulation Accuracy
- * PCI scan (5G NR + LTE)
- * Autonomous measurement (5G NR, LTE, WCDMA)
- * Application in the Tablet PC (Android OS)
- * Cloud SA management: Interoperable with cloud server (Optional)



Powerful Performances



Base station
Conformance test



5G Signal Analysis
- Constellation
- UL/DL Multi view



PCI Scan

Spec Item		XCAT-IXA 1x C	XCAT-IXA 2x C
Frequency	Operating Frequency	300KHz~7.5GHz	9KHz~20GHz
Exterior	Exterior		
	Type	Separate display	Separate display
	Tablet SW	Same	Same
	Weight	1.54 kg	3.4kg
	Size	W105.8xH51xD255.5 mm	W190.0xH65.5xD267.6 mm
Battery	Operating time	1 hrs 30 min	3 hrs 50 min
Frequency Reference	AgingRate/Year	± 0.5 ppm/Year	± 0.5 ppm/Year
Sweep	Mode	Sweep & FFT (Hybrid)	Sweep & FFT (Hybrid)
Bandwidth	Demd. BW	~ 100MHz	~ 100MHz
SSB Phase Noise (@ 1GHz, 100 kHz offset)		-101.2 dBc	-101.2 dBc
Amplitude	Measurement Range	DANL ~ +20dBm	DANL ~ +20dBm
	Amplitude Accuracy	±1.3dB (±0.5 dB typical)	±1.3dB (±0.5dB typical)
Dynamic range		> 106 dB @ 3.5GHz	> 110 dB @ 2.4GHz
Second Harmonic Distortion (@ 4 GHz)		<-70dBc typical	< -70dBc typical
DANL (@ 4 GHz)	Pre-amp OFF	-144dBm typical	-147dBm typical
	Pre-amp ON	-161dBm typical	-162dBm typical

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