iQxstream

PRODUCT OVERVIEW

LitePoint IQxstream® Small-Cell Test System

Advanced Small-Cell and Femtocell RF Test System

LitePoint IQxstream is a multi-technology testing solution for precise measurements of 3G and 4G small-cell (femtocell) devices—meeting the demands of development and high volume production deployments.

The IQxstream implements non-signaling testing methodology that enables advanced testing strategies that go beyond serial test flows to include parallel-test execution. This capability allows up to 4 DUTs to be tested in parallel, greatly increasing the efficiency of the test system and providing significant cost savings.

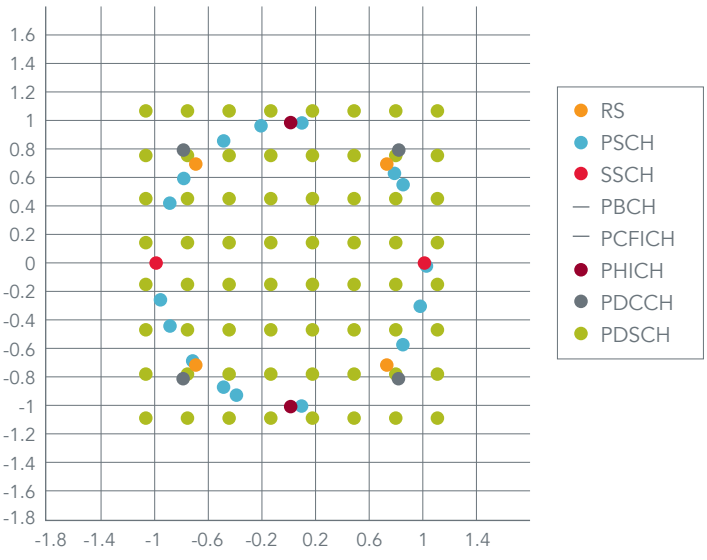
Supports the Latest Cellular Technologies and Beyond

The IQxstream is a one-box solution with integrated Vector Signal Analyzer and Vector Signal Generator for complete physical layer TX and RX measurements. IQxstream supports small-cell testing for both W-CDMA and LTE FDD/TDD cellular technologies. The test system also includes a General Purpose RF Tool Box that has signal generator, signal analyzer and power meter test resources for development and debug. The IQxstream Test System covers a frequency range from 400 MHz to 3000 MHz (option to 3800 MHz). The RF generator and analyzer bandwidths are both 100 MHz, which enables wide-signal capture and analysis, ensuring support for future standards such as LTE-Advanced.

Designed for High Volume Manufacturing Test

The IQxstream hardware and software is designed from the ground up reliable and efficient performance in a manufacturing environment. The one-box design reduces external cabling to provide a simplified and highly reliable solution for production test. The architecture was purpose-built for multi-DUT testing, enabling highly efficient parallel test and overall lowest cost per test.

IQxstream is ideal for both residential femtocell and enterprise class 2x2 MIMO small cell devices. IQxstream delivers the highest throughput, with the best equipment utilization, in an easy to deploy multi-DUT testing solution.



Confidence

IQxstream is backed by LitePoint's global support team located in major manufacturing centers around the globe. With local application and service engineers at all these sites, support is never far away.

LITEPOINT

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Key Specifications	
Frequency Range	400 MHz to 3800 MHz
Input Power Range	+33 dBm maximum (average) +36 dBm (Peak Envelope Power PEP)
Output Power Range	+10 to -140 dBm (streaming port) -5 to -130 dBm (duplex / broadcast mode)
IF Bandwidth	100 MHz
Supported Small-Cell Standards	W-CDMA Small Cell (Femtocell, Picocell) LTE Small Cell (TDD/FDD, Femtocell, Picocell)

Standard Test	WCDMA Small Cell: 3GPP TS 25.141	LTE Small Cell: 3GPP TS 36.141
Maximum Output Power	6.2.1	6.2.2
Frequency Error	6.3.1	6.5.1
Occupied Bandwidth	6.5.1	6.6.1
Adjacent Channel Leakage Ratio	6.5.2.2	6.6.2
Error Vector Magnitude	6.7.1	6.5.2
Reference Sensitivity	7.2	7.2
Spectrum Emissions	6.5.2.1	6.2.6, 6.2.7, 6.6.3, 6.6.4
Primary CPICH power accuracy	6.2.2	N/A
Peak Code Domain Error	6.7.2	N/A
Transmitter OFF power	N/A	6.4.1

Part Number	Description
0100-XSTR-022	IQxstream Small Cell Test System - 5 ports - 400 to 3800 MHz
0100-XSTR-042	IQxstream Small Cell Test System - 10 ports - 400 to 3800 MHz
0300-XSTR-009	W-CDMA Small Cell Measurement Suite
0300-XSTR-010	LTE Small Cell Measurement Suite
0300-XSTR-027	Automatic Path Loss Calibration Software License
0300-XSTR-029	Easy-Detect Software License (Fixture Health Check & DUT Sense)
0300-XSTR-029	Factory Efficiency Software License (Fixture Health / DUT Sense)

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