IQxstream-5G™
5G Sub-6 GHz Cellular Test System

IQxstream-5G Overview

The IQxstream-5G is the industry's first sub-6GHz 5G single-box tester with 200 MHz of bandwidth supporting the 3GPP NR 5G specification evolution. With 200 MHz of continuous bandwidth, the IQxstream-5G provides a future-proof test solution investment as the 3GPP NR standards evolve and new sub-6GHz spectrum allocations for 5G are defined worldwide (for example, new spectrum in the 3.3 to 4.9 GHz range). In addition, 200 MHz of continuous bandwidth allows for much faster throughput when performing 5G NR carrier aggregation (CA) signal analysis.

The IQxstream-5G supports both TDD and FDD cellular signals for legacy 2G/3G and mainstream 4G LTE, LAA, and 5G 3GPP NR technologies. In addition, the IQxstream-5G can be software-upgraded to support other wireless technologies, including Wi-Fi (802.11a/b/g/n/p/ah/ac/ax/be), Bluetooth, ZigBee, NB-IoT, and the popular navigational technologies.

The IQxstream-5G supports up to eight bi-directional VSA and VSG ports thus making it ideal for multi-DUT testing of user equipment (UE) applications like 5G NR smartphones and tablets. All eight ports are factory calibrated which enables a very fast set up in terms of minutes, rather than in hours, as no external switches or combiners are required.

Superior 5G EVM Performance
The IQxstream-5G with 200 MHz of tester bandwidth covers 3GPP NR standards evolution with EVM performance up to -48 dB for accurate device measurement.

Intuitive Graphical User Interface
The IQxstream-5G intuitive graphical user interface enables the user to perform 5G waveforms generation and analysis, and tester control.

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Key Technical Specifications

	Parameter	Value
VSA	Frequency Range	400-6000 MHz
	Bandwidth	200 MHz
	Max Input Power	+34 dBm (avg) +36 dBm (peak)
	Input Power Accuracy	<± 0.4 dB, Typical, (input > -40 dBm), 400 to 3800 MHz <± 0.5 dB, Typical, (input > -40 dBm), > 3800 to 6000 MHz
VSG	Frequency Range	400-6000 MHz
	Bandwidth	200 MHz
	Max Output Power	+5 dBm (CW)
	Min Output Power	-130 dBm
	Output Power Accuracy	± 0.7 dB (typical levels > -100 dBm)
Ports	Number of Ports	8 Bidirectional VSG / VSA Ports

Order Codes

Code	Product
0100-XS5G-001	IQxstream-5G Test System, 8-port. 400 to 6000 MHz RF. Includes General Purpose RF Measurement Toolbox with browser-based Graphical User Interface (GUI) and 1 year hardware warranty.
0100-XS5G-003	IQxstream-5G+ Test System, 8-port. 400 to 6000 MHz RF. Includes General Purpose RF Measurement Toolbox with browser-based Graphical User Interface (GUI) and 1 year hardware warranty.
0300-XS5G-001	3GPP NR 5G Software License.
0300-XS5G-005	LTE Measurement Suite Software License. Includes LTE FDD and LTE TDD.
0300-XS5G-007	LTE-Advanced Pro Measurement Suite Software License. Enables LTE release 12 & 13 measurement features.
0300-XS5G-009	UMTS Measurement Suite Software License. Includes GSM / EDGE, W-CDMA / HSPA, W-CDMA / HSPA+.
0300-XS5G-015	LTE Small Cell Measurement Suite Software License.
0300-XS5G-097	C-V2X Measurement Suite Software License. Requires LTE Measurement suite software license as a prerequisite.
0300-XS5G-103	5G Small Cells Measurement Suite Software License. Only applicable to 0100-XS5G-003.
0300-XS5G-106	5G MIMO measurement suite software license. Required if performing downlink analysis of multiple streams on a 5G small cell, or a second VSG generating a blocker signal (interfering signal) for testing the performance of a base station receiver. Pre-requisite 5G small cell SW License. Only applicable to 0100-XS5G-003.
Others	Contact LitePoint for Wi-Fi/NB-IoT/BT/ZigBee/Navigational order codes.

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