



VPN Services
 Carrier Ethernet
 Multiplay Services
 Core Routing & MPLS
 Conformance Test Suites
 Scalable Protocol Emulation
 Traffic Generation & Analysis
 Access and Edge Network Equipment

Agilent N2X

The industry's most comprehensive multiservices test solution for converging network infrastructures.

Agilent Technologies



Multiservices and infrastructure testing

N2X is designed to test IP forwarding devices that deliver video, VoIP, data services and business VPNs. It is used in "out-of-service" lab environments to test at real-world scale with realistic traffic.

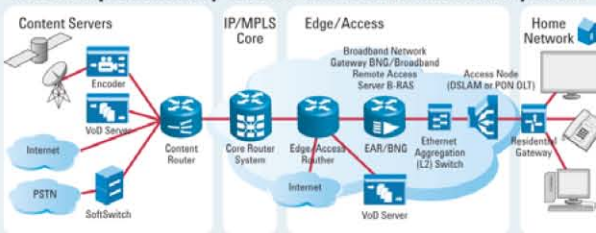
Service Provider tasks accelerated by N2X

Technology & equipment evaluation	Benchmarking & vendor selection	Equipment acceptance	Trouble-shooting	Network upgrade
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Network Equipment Manufacturers tasks accelerated by N2X

Hardware development	Software design & development	Integration	System test	Technical Marketing	Customer proof of concept
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N2X comprehensively tests IP network devices and systems



N2X test types

Application performance	Interoperability test
Protocol/functional test	Scalability test
Regression test	Conformance test
Bandwidth management & QoS	Feature interworking/robustness
Switch fabric & line card forwarding performance	Negative test
	Automated testing

Flexible System Configuration

The Agilent N2X system consists of a system controller and multiple chassis containing purpose-built test cards for specific test requirements. The system controller provides a graphical interface to drive applications running on the test cards.

System Controller

A number of system controllers are available depending on your performance requirements and number of concurrent users necessary. Each controller provides an easy-to-use Windows® environment and is capable of controlling all the N2X test cards and application software.

N2X Chassis

N2X has a highly compact 4-slot chassis and 2-slot portable chassis available for both labs and in-field use.

N2X Test Cards

High-density, hot-swappable, scalable and flexible N2X test cards are optimized for the specific test needs of next-generation Transport, Carrier Routing, SAN and Enterprise networks and devices.

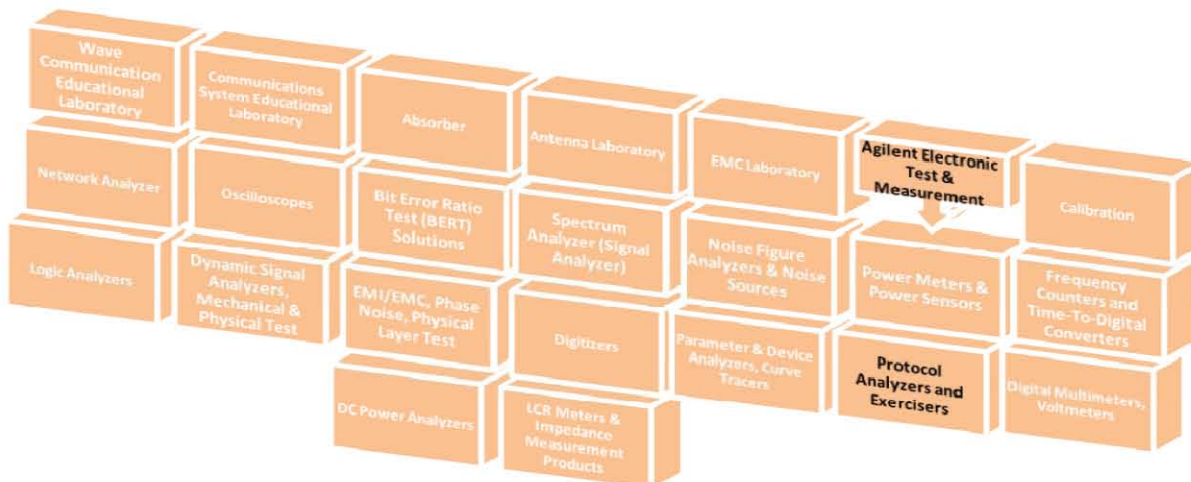
- N2X XM test cards – SONET/SDH test cards for simulation and analysis of multi-channel loading, errors, alarms and switching performance.
- N2X XP test cards – Packet test cards for comprehensive traffic generation and analysis.
- N2X XR test cards – Packets and Protocols test cards for integrated traffic generation and realistic protocol emulation for dynamic network testing.
- N2X XS test cards – High-performance Packets and Protocols test cards optimized to deliver industry's highest protocol emulation scalability for network stress testing.

Each card features its own high-performance on-board CPUs with distributed processing power to allow synchronized measurements across multiple chassis. These cards are designed to increase test coverage and reduce test cost.

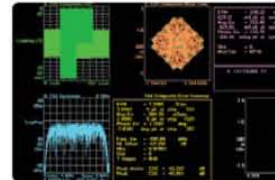
N2X Software and Support Agreement

To protect your investment in the Agilent N2X, every new system includes an initial 12-month comprehensive system-based warranty and Software and Support Agreement (SSA). Renewing Agilent support services ensures uninterrupted technical support and software upgrades, giving you confidence in N2X throughout the life of your system.

The N2X technical support portion of your SSA includes assistance with product operation and measurements and verification that the N2X equipment is in correct working order.



Agilent Solutions for the DigRF v3 Digital Serial Interface Used In Mobile Wireless Devices



Rapidly deploy your DigRF v3-based designs using Agilent logic analyzer and RF tools for stimulus and analysis in the digital and RF domains



The DigRF v3 Measurement Challenge

Technology shifts that enable new capabilities also give rise to a new set of measurement challenges. The DigRF v3 standard, created by a group of mobile wireless component and product suppliers, is a perfect example. The standard was developed to:

- Enable interoperability between baseband and RF ICs from different vendors
- Reduce cost through reduced pin count
- Extend battery life

Achieving these capabilities required changing the traditional analog interface between the BB-IC and RF-IC to a digital serial bus. Measuring and stimulating the BB-IC and RF-IC interface traditionally required you to use a spectrum analyzer and signal generator. However these tools are incapable of making the necessary measurements on the new digital serial bus. Creating a custom test solution requires resources, time and long-term support that you just can't afford.

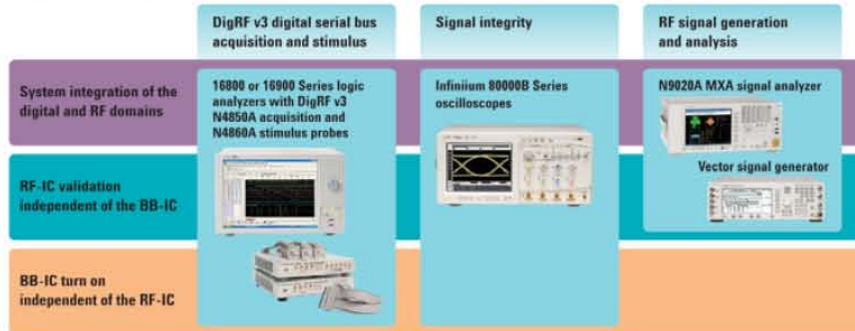
Meeting the DigRF v3 Measurement Challenge



To address this measurement challenge, Agilent developed the N4850A DigRF v3 acquisition probe and N4860A DigRF v3 stimulus probe. The probes operate in conjunction with 16800 and 16900 Series logic analyzers to provide the digital serial acquisition and stimulus capabilities required for DigRF v3-based IC evaluation and integration.

The integration of DigRF v3 logic analysis tools with the Agilent RF portfolio provides the cross-domain solutions that will help you rapidly deploy your DigRF v3-based designs.

Whether you're designing an individual component or doing system integration of a DigRF v3 design, Agilent has a solution for your specific test and measurement needs.



Available signal generation and analysis software

Logic analysis with stimulus and acquisition probes	Oscilloscope	RF signal generation and analysis
<p>Included:</p> <ul style="list-style-type: none"> • DigRF v3 packet decoder and viewer • B4602A signal extractor <p>Order separately to:</p> <ul style="list-style-type: none"> • Analyze digital IQ: 89601A VSA software • Create digital IQ data: ADS, Signal Studio, custom programming package, or logic analyzer trace converted to stimulus pattern • Customize the DigRF v3 packet decoder: B4641A Protocol Development Kit 	<p>Order separately for serial data analysis and jitter analysis:</p> <ul style="list-style-type: none"> • N5400A EZJIT Plus Jitter analysis software • E2688A Serial Data Analysis • N5414A InfiniScan Identification Software 	<p>Available:</p> <ul style="list-style-type: none"> • Advanced Design System (ADS) for BER testing • 89600 VSA software for RF signal analysis analyzes signals directly from logic analyzers • Vector signal generators for RF signal generation • Signal Studio software for format-specific signal creation

