

OptiView XG Network Analysis Tablet

The wireless companion to nGeniusONE for full WLAN lifecycle management and troubleshooting network infrastructures

Product Overview

The OptiView® XG Network Analysis Tablet is the first network infrastructure analyzer for both wired and wireless networks. When used with the nGeniusONE® Service Assurance platform, the OptiView XG offers visibility across the entire network—from the data center to remote sites, wired to wireless access points, all the way to an end user's desktop. With emphasis on portable troubleshooting and WLAN lifecycle management, the OptiView XG combines active performance testing, automated health checks, graphical network analysis and documentation, and support for rapid deployment and performance monitoring of newer technologies such as 802.11ac and 10 Gbps.

Highlights

- Portable analyzer with multiple radios facilitates optimal design and deployment of WLANs (802.11 a/b/g/n/ac), while automatically detecting security threats and vulnerabilities
- WLAN intelligence engine answers any question about connectivity, signal strength, network performance, roaming, interference, and security issues on wireless networks
- Unique path analysis and automated wired/wireless network mapping provide graphical views of the network to visually identify issues
- Measures end-to-end wired network performance: bandwidth, latency, jitter, loss, QoS, and availability up to line-rate 10 Gbps
- Network packet capture and analysis (1G / 10G)
- Troubleshoot remote sites without travel – use remote user interface for collaborative troubleshooting
- Integrated with the nGeniusONE platform

Product Capabilities

Portable - A tablet designed for network engineers, the XG can be used anywhere.

Multiple Integrated wireless adapters - Two Wi-Fi adapters and one spectrum adapter built-in.

Extendable battery life – Up to 4 hours on the battery for wired or wireless analysis (or 2 hours for wired AND wireless analysis). Hot-swap batteries for a full day of portable troubleshooting.

Connectivity - Supports 10 Gbps and 1 Gbps fiber, 10/100M and 1 Gbps dual-port copper and 802.11a/b/g/n/ac WLAN.

Performance –The XG runs Windows® 10 (64-bit, LTSB) capable of 10 Gbps full line-rate capture with a 4 GB dedicated capture buffer.



Complete WLAN Lifecycle Management and Troubleshooting

The OptiView XG Network Analysis Tablet is the wireless companion to the nGeniusONE platform, providing comprehensive WLAN management and troubleshooting capabilities. It includes multiple radios in a portable form factor, enabling engineers to conduct capacity planning, Wi-Fi coverage and performance testing, interference detection and mitigation, and security threat reduction across 802.11 a/b/g/n/ac environments.

The OptiView XG embeds the award-winning AirMagnet Mobile suite, including Survey PRO, which allows an engineer to sweep a facility and get a visualization of WLAN performance; Spectrum XT, which enables engineers to detect sources of interference; and Wi-Fi Analyzer PRO, which helps engineers plan the best placement of access points, validate and troubleshoot performance, and detect security threats and vulnerabilities, while ensuring full use of existing infrastructure before upgrading technologies.

Portable Analysis and Troubleshooting for Faster Response

The OptiView XG enables Wi-Fi and wired network analysis and troubleshooting anywhere in the network. It gives engineers mobility and insight via a slim yet powerful form factor, coupled with automated discovery, mapping, monitoring, analysis, and troubleshooting. For highly complex issues that require collaborative problem-solving or for troubleshooting remotely, a single OptiView XG supports up to 32 remote sessions.

The OptiView XG integrates with the nGeniusONE platform to enable more efficient workflows, as well as service assurance visibility across the entire wired/wireless network—from the data center to WANs, cloud and remote access layer.

Network Analysis and Performance Testing

The OptiView XG streamlines root cause isolation and analysis for both wired and wireless networks. It quantifies network performance in term of bandwidth, latency, jitter and packet loss up to line-rate 10 Gbps. Engineers can also validate performance of new infrastructure elements and critical links within the data center and use the OptiView XG to independently determine whether service providers are meeting SLAs and maintaining QoS.

Beyond network testing, with the OptiView XG's real-time traffic analysis, engineers can see the top hosts, conversations and protocols to quickly understand who is using bandwidth.

- End-User Experience – Enables testing at operational speeds in conjunction with path analysis, so engineers can identify and fix bottlenecks quickly.
- Automated Health Checks – Shows availability and responsiveness of critical network services, as well as the highest utilization and errors across the entire network. OptiView XG searches the switch and router infrastructure to identify problems before they become full-blown issues, such as port errors, discards, high memory/CPU utilization, device reboots and FHRP failovers.

Graphical Network Analysis and Documentation: a pictorial view of the path between a user and applications resources, whether they are local, remote, or cloud based. The flexible map-based user interface visually identifies configuration and topology issues and instantly creates network documentation, showing DNS name and IP address, inter-switch connections by port number, link speed and VLAN information.

Specifications:

Physical Specifications	
Dimensions	(H,W,D) 9.45" x 12.43" x 2.03" (240 mm x 315.7 mm x 51.6 mm)
Weight	5.6 lb. (2.5 kg) with batteries; 4.5 lb. (1.8 kg) without batteries
Environmental Specifications	
Operating Temperature*	10°C to 30°C (50°F to 86°F) with up to 95% Relative Humidity. 0°C to 50°C (32°F to 122°F) with up to 75% Relative Humidity
Storage Temperature	-40°F to +160°F (-40°C to +71°C)
Shock and Vibration	Meets requirements of MIL-PRF-28800F for Class 3 equipment
Safety	EN 61010-1 2nd Edition
Altitude**	4600 m (15000 ft) on batteries
Electrical Specifications	
AC Adapter Input	100 V – 240 V, 50/60 Hz, 1.5 A
AC Adapter Output	19 VDC, 4.74 A, 90 W
Battery*	Two user-replaceable, rechargeable, 45 Watt-hour, lithium-ion battery packs.
Battery Operating Time	2 hr. (typical - can be extended to approximately four hours by disabling/powering down the network under test ports for doing extended WLAN analysis)
Battery Charge Time*	3 hr. (typical). Charge time depends on residual battery charge
System Specifications	
Operating System	Windows 10 Enterprise LTSB 2016
PC - Processor	Intel® Core™ Duo CPU U9300 @ 1.2GHz

* Battery charging is disabled when internal temperature rises above 113°F (45°C).

** Altitude specification applies to OptiView XG and batteries. Maximum altitude for AC adapter is 2000 m (6,600 ft.).

Ports	
Network Analysis Ports	2 RJ-45 10/100/1000BASE-T Ethernet, Small form-factor pluggable (SFP) 100/1000BASE-X Ethernet, enhanced small form-factor pluggable (SFP+) 10GBASE-X Ethernet
Management Port	RJ-45 10/100/1000BASE-T Ethernet

Wireless Network Connection Specifications	
Internal Wireless Antennas	3x3 MIMO. Seven internal 2.4 GHz, 1.1 dBi peak, 5 GHz 3.2 dBi peak antennas
Operating Frequency	2.412 – 2.484 GHz
	5.170 – 5.825 GHz
Security	64/128-Bit WEP Key, WPA, WPA2, 802.1X

Compliance Statements	
EMC	Complies with IEC/EN61326-1:2006, class A
Safety	Complies with IEC/EN 61010-1:2001, CAN/CSA C22.2 No. 61010-1-04, ANSI/UL 61010-1:2004, EN/IEC 60825-1:2007, EN/IEC 60825-2:2004+ A1:2007
Telephone*	The OptiView XG is NOT designed for connection to a telephone network
	The OptiView XG is NOT designed for connection to an ISDN line

*Note: Do not connect to a telephone network or ISDN line except through a regulatory agency compliant computer network modem device.



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