

Datasheet: OptiView XG Network Analysis Tablet - Overview and General Information



The OptiView® XG is the first tablet specifically designed for the network engineer. It automates root-cause analysis of wired and wireless network and application problems allowing the user to spend less time on troubleshooting and more time on other initiatives. It is designed to support the deployment and troubleshooting of new technologies, including unified communications, virtualization, wireless and 10 Gbps Ethernet. The result is that new initiatives get up and running faster and networks stay productive even in these days of smaller teams.

Core capabilities

- **Network Analysis** – Automated discovery, mapping, monitoring, analysis and guided troubleshooting of your network infrastructure
- **Traffic and Packet Analysis** – The ONLY tablet with 10 Gbps "On the wire" analysis
- **Wireless Analysis** – Integrated tools for deployment and troubleshooting of 802.11a/b/g/n/ac WLANs
- **Performance Testing** – Troubleshoot problems from end-to-end, conduct network assessments, validate new infrastructure and devices, and test service provider SLAs and QoS at up to a full line-rate of 10 Gbps

For detailed information about each one of these core capabilities, see additional data sheets.

The Tablet for Network Engineers

The OptiView XG's unique tablet form factor provides the mobility to connect, analyze and troubleshoot anywhere in the network - at the desk, in the data center, or at the end user location. It can quickly analyze the performance and health of devices, interfaces and paths on your network- which moves beyond traditional LAN/WAN switching and routing to a true network fabric that incorporates heterogeneous physical devices, wireless networks, virtualized servers and networks.

- Integrates the latest wired and wireless technologies with powerful dedicated hardware in a unique tablet form factor to connect, analyze and solve network and application problems anywhere
- Displays your network exactly the way you want to see it through intuitive, customizable dashboards and interactive maps
- Provides performance testing, 'on-the-wire' and 'in-the-air' automated analysis up to 10 Gbps
- Enables proactive analysis by analyzing the information you need before issues arise, monitoring for problems, and notifying you immediately
- Out-of-the-box and customizable reports and maps

Network Analysis

For further information, [see detailed data sheet](#)

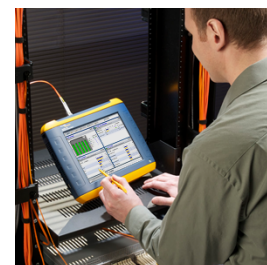
- Real-time discovery engine finds and tracks up to 30,000 devices – hosts, phones, switches, routers, access points, servers and more
- Unique Path Analysis provides graphical view of the path between a user and application resources (local, remote, or cloud-based) and visually indicates performance data or problems on critical links and devices along the path
- Automated wired and wireless network mapping - using OptiView's powerful discovery engine, users can interact with their network in a flexible map-based user interface to visually identify configuration and topology issues, speeding troubleshooting. One click sends the map data through a Visio file generator, creating instant, professional network documentation
- Version 13 provides two new key capabilities for network mapping. First, v13 provides visibility of unmanaged, unknown devices – including WLAN access points. View these potential 'rogue' devices in both the discovery list and see them in a network map, along with the devices connected to them. Secondly, mapping of VoIP phone endpoints provides complete documentation for unified communications deployment projects.
- Allows visibility of intermittent problems by collecting and monitoring granular data rather than the aggregated data collected by typical network management systems
- Automatically detects problems in the network and suggests resolution procedures
- Measure performance of your VMware® environment, including hypervisor availability, interface utilization, and resource usage levels
- Real-time NetFlow data finds bandwidth hogs



Traffic and Packet Analysis

For further information, [see detailed data sheet](#)

- Ensures line-rate packet capture up to 10 Gbps for troubleshooting difficult application problems
- Sequential store to disk allows for multiple, sequential captures to be stored to the OptiView XG analyzer's internal disk or to an external storage device to capture for longer periods or to capture multiple trigger events, ensuring that you capture all the packets needed for successful analysis
- Performs application-centric analysis with a high-level view of the applications on the network with easy drill down capability, speeding root cause analysis
- Real-time traffic analysis shows top hosts, top conversations, top protocols - for a fast view of who is using your bandwidth
- Go directly in-line (up to 1 Gbps) to observe traffic in real-time or capture at line rate without the need of an external tap, saving time and hassle



Wireless Analysis

For further information, [see detailed data sheet](#)

- Enables analysis of 802.11a/b/g/n/ac WLAN environments using the award-winning AirMagnet Wi-Fi Analyzer, Spectrum XT, Survey and Planning tools, and AirMagnet Spectrum ES™ for in-building cellular deployments
- OptiView Version 13 features full support for 802.11ac environments
- Find rogue clients and access points that could be jeopardizing the security of your network
- Identify and find sources of RF interference that impact the performance of your WLAN
- Quickly troubleshoot WLAN performance issues – configuration problems, co-channel interference, slow clients
- Discovery and querying of wireless LAN controllers provides information about wireless networks across your enterprise
- Automatically create detailed maps of your wired and wireless infrastructure, including APs, WLCs, and wireless clients



Performance Testing

For further information, [see detailed data sheet](#)

- Troubleshoot network bottlenecks, validate new architectures, and assess networks for new technology or application deployments, test service providers SLAs and end-to-end QoS
- Measures end-to-end network performance in terms of bandwidth, latency, jitter, loss, test QoS, and availability up to 10 Gbps
- Testing at operational speeds (less than line-rate) in conjunction with Path Analysis reveals network bottlenecks for fast troubleshooting
- Class-of-Service testing and multiple test streams (up to 8 simultaneous) ensures availability and performance of QoS throughout your network, and whether carrier links are supporting QoS



Innovative Design and Powerful Custom Hardware Speeds the Job of Network Engineers

Tablet Form Factor

OptiView XG provides a wide range of functionality to adapt to the dynamic and diverse networks of today, in a convenient tablet for use anywhere in the network. It is the only tool that provides the capabilities to analyze and troubleshoot applications, wired networks (1 GbE, 10 GbE) and wireless networks (802.11a/b/g/n/ac) from the perspective of either remote or local users. The unique tablet form factor designed specifically for network engineers provides valuable mobility to troubleshoot anywhere in the network, from the engineer's desk, the data center or at the end-user location.

Key Features

Portable - The XG is extremely portable. It is 14 inches (36 cm) measured diagonally. At just under 6 pounds (2.5kg) and 2 inches (5 cm) thin, the XG can be used anywhere.

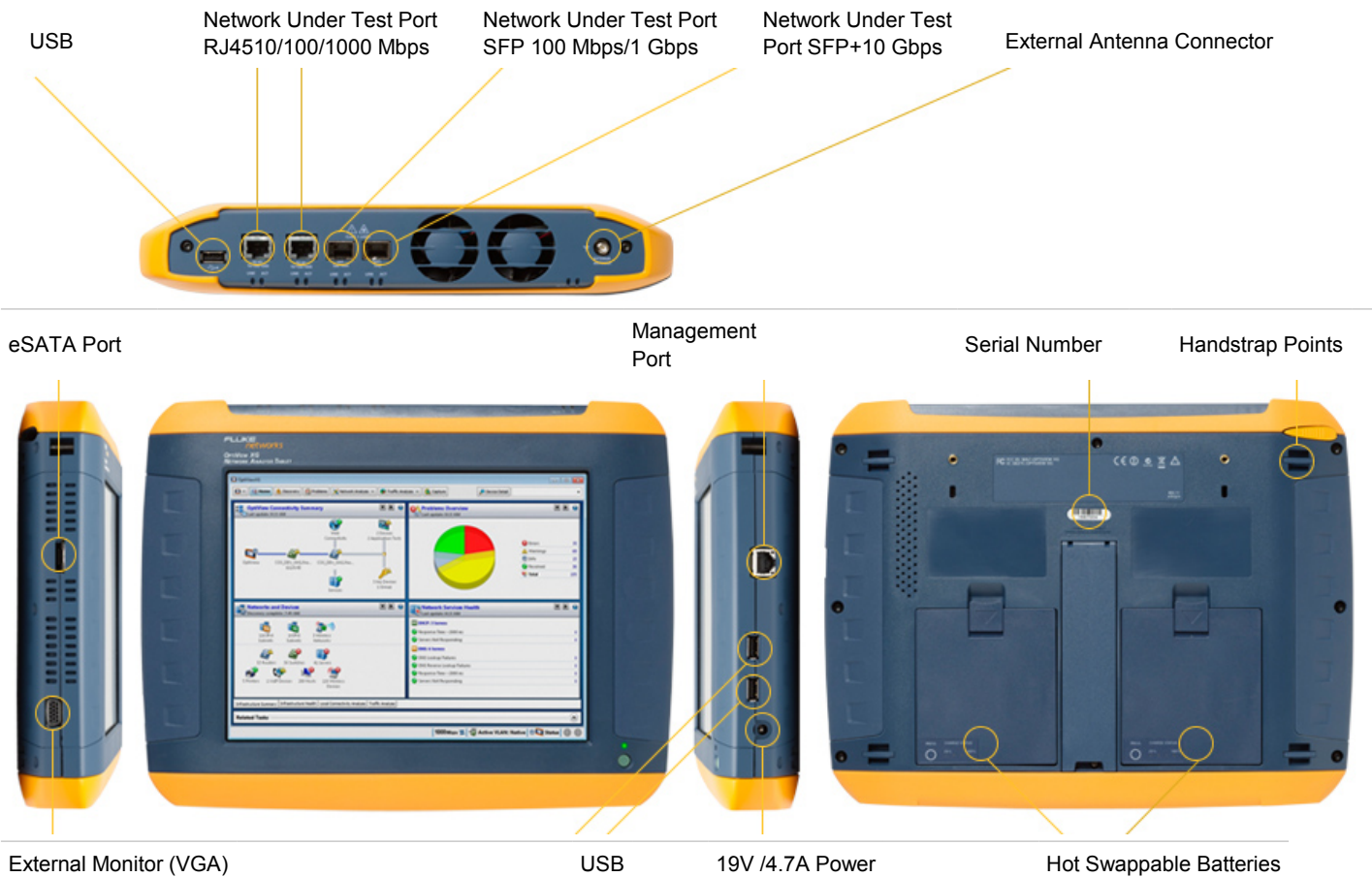
Multiple wireless adapters - The XG has two Wi-Fi adapters and one spectrum adapter built-in. The multiple adapters along with the portability make WLAN analysis and troubleshooting easy as you do not need to swap adapters or have extra external hardware.

High-resolution display - A large, 10.25 inch high-resolution 1024x728 LCD display is remarkably crisp and vivid making it perfect for viewing and analyzing large amounts of data at once.

Extendable 2 hours of battery life - The XG can be used for up to 4 hours on the battery for wired or wireless analysis (or 2 hours for wired AND wireless analysis). The batteries are hot swappable which means the XG can be used for a much longer time without losing data.

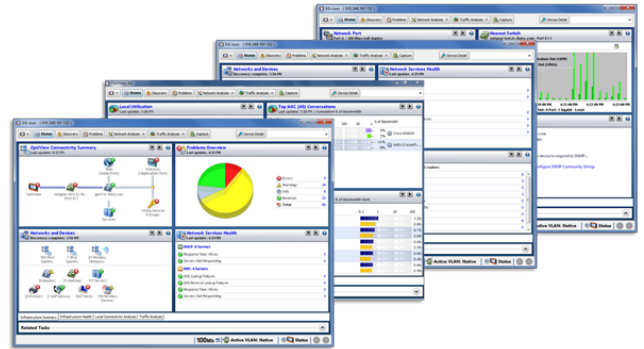
Connectivity - The XG supports 10 Gbps and 1 Gbps fiber, 10/100M and 1 Gbps dual-port copper and 802.11a/b/g/n/ac WLAN.

Performance - The XG runs Windows® 7 (64-bit, SP1) with 4 GB of RAM. It has a 128 GB solid state removable drive. The XG obtains its processing power from an Intel® Core™ Duo 1.2 GHz processor. The XG is capable of 10 Gbps full line-rate capture and has a 4 GB dedicated capture buffer.



User Configurable Dashboards

Present the relevant data to the right audience. OptiView XG has extensively customizable dashboards that transform collected data into an actionable presentation. The dashboard can be customized for a particular user or for the entire enterprise. Create dashboards for keeping an eye on network and applications by site or even by business function. Save and export them to different members of your team. The dashboard provides an at-a-glance overview of the current status of your network with critical metrics from routers, switches, firewalls, servers, services, and other infrastructure devices. Even remote users can set up dashboards to get their own view of network operations.

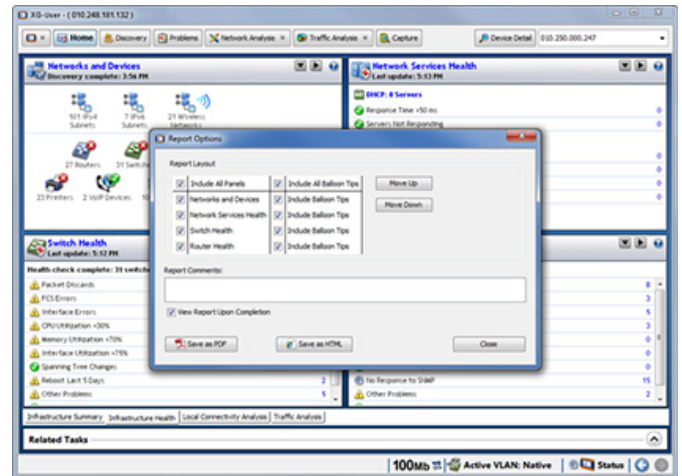


Customizable Dashboards

Network and Application Issue Reporting Engine

OptiView XG offers a number of built-in reports, making it quick and easy to report on application and network problems. While viewing a screen, press the Reports key to generate HTML or PDF reports on protocols, top hosts, top conversations, devices, networks, problems and many more.

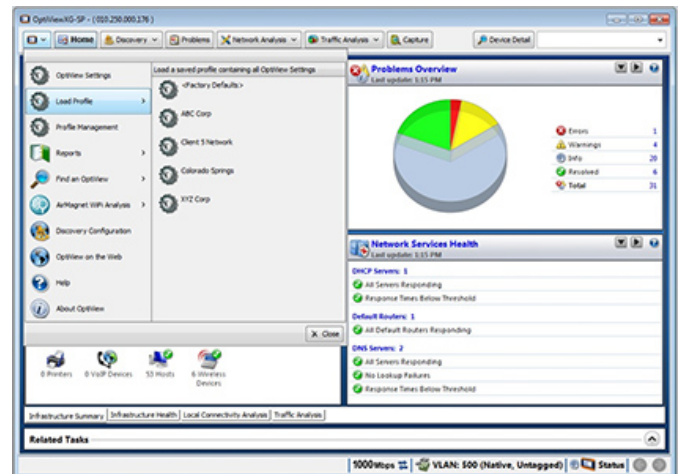
Customize out-of-the-box reports and create completely customized reports using the configurable dashboards in just a few clicks. The ability to choose what data to populate in a report enables users to quickly see the information needed. You can even create reports for specific user profiles, making it easy to generate reports for specific departments or recipients.



Customizable Reporting

Configuration Profile Management

Profile management enables saving instrument settings as a site- or client-specific profile, speeding instrument reconfiguration when moving between different networks. Configure XG as needed for a particular site or network, and save that profile on the instrument or export it for use on another XG. When connecting to a different network, simply load the required profile and XG is instantly configured and immediately begins analysis. Ideal for system integrators, field engineers, consultants or auditors, saving time and ensuring consistency of data between different sessions.



Profiles 1

Problem Alerting and Notification – SNMP Trap and Syslog Messages

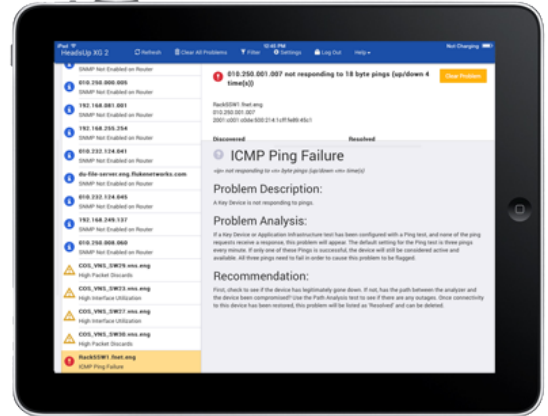
OptiView XG scans the entire network infrastructure, identifying issues and bringing them to your attention. When problems are discovered, XG utilizes the on-board Windows Event Log, SNMP service and syslog agent to send problem notifications to the user's network management system (via SNMP Traps or syslog messages), where they can be routed to the appropriate technician.

Problem Alerting and Notification – HeadsUp™ XG Mobile App

With the HeadsUp XG mobile app for Apple iOS (available free via the Apple iStore), and Android devices (available on Google Play), you get real-time notifications from your OptiView XG tablet(s). Instant notification means you're always "in touch" with your network, and see critical problems even before users start calling the help desk!

Use HeadsUp XG to browse your OptiView XG units, and drill down into problems on the Problem Log. The affected devices and specific problems are reported, along with the severity of the problem (Error, Warning, Info) and time detected. Problems that have been resolved are also indicated, and the time the resolution was detected. The app also includes a detailed Help file, or onboard "expert", providing background information about the type of problem, how it can be caused and what can be done to resolve it. Having visibility in the palm of your hand allows you to react more quickly when problems occur. You decide whether the particular problem is a "red alert" or something that can wait, helping you manage your time more effectively. Multiple users can use HeadsUp XG to access and get notifications from your XG(s).

You can "clear" problems on the XG remotely from your phone or tablet, and through the app's synchronization capability, the problems are cleared on the XG simultaneously, and vice versa – problems cleared on the XG are automatically cleared on your handheld device.

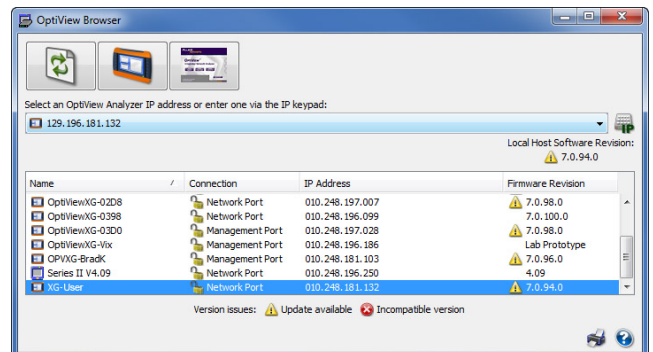


HeadsUp XG app for iOS

Remote User Interface and Access

Simply point a web browser at the IP address of a correctly configured OptiView XG tablet to retrieve saved reports and capture files. You can also install a remote User Interface (UI) and use your PC to remotely access an OptiView XG over a TCP connection. Once the remote UI is installed, simply give the interface the IP address of the OptiView XG and see the default dashboards. You can then create your own remote dashboards to give you a personalized view of the network.

Communication between the OptiView XG and remote UI can be encrypted. A single portable OptiView XG supports thirty-two remote sessions for collaborative troubleshooting or opening of multiple sessions on a PC to provide a remote "NOC" view. The OptiView XG features a separate management port for "out-of-band management" independent of the network under test port. When using the remote interface, all dashboards created are stored on the user's PC, allowing further customization for each remote user.



Remote User Interface - OptiView Browser

User Accounts

Add and modify security information for each individual OptiView XG user to prevent unauthorized use of certain features for compliance with regulatory requirements or internal policies. For example, this allows users access to powerful troubleshooting features such as SNMP, while keeping the community strings hidden. Features that can be disabled include packet capture and decode, traffic generation, remote user interface and OptiView XG configuration.

Context Sensitive Help

Help is contextually linked to each screen in the OptiView XG. While the help screen is displayed, you may select other information from the table of contents, choose an index entry, or perform a full text search on any help topic or term.

Removable Hard Drive

Essential for use on classified networks and secure environments, this feature ensures any sensitive data stored on your network analyzer's hard drive never leaves that facility. Network information discovered by the OptiView XG tablet is stored on the removable hard drive, allowing the OptiView XG to be moved between classified environments and between classified and unclassified systems by simply removing and replacing the hard drive. Extra, pre-configured drives are available (spare drives are pre-configured with Windows 7 OS and OptiView operating software).

Included with OptiView XG Network Analysis Tablet:



- Leather carrying case with extra storage
- Shoulder and hand straps
- AC adapter/charger
- Stylus
- Getting Started Guide
- USB memory stick
- 2 m (6') shielded twisted-pair patch cord
- Internal removable hard drive

The OptiView XG tablet with wireless (WL, PRO, PLUS and EXPT models) ship with one external, directional wireless antenna with mounting hardware and one omnidirectional antenna (not shown).

General 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
Display	Color active matrix TFT LCD, 1024 x 768 pixels, LED backlight, touch panel with 2 touch points
Security	Kensington® security slot on rear panel for connection of security cable

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	Window 7 Professional, 64 Bit, Service Pack 1
PC - Processor	Intel® Core™ Duo CPU U9300 @ 1.2GHz
PC - RAM	4 GB
Capture Buffer	4 GB

* 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.).

Wired Network Connection Specifications

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
Supported SFP Modules	1000BASE-SX - 850 nm (Standard)
	100BASE-FX - 1300 nm
	1000BASE-LX - 1310 nm
	1000BASE-ZX - 1550 nm
Supported SFP+ Modules	10GBASE-SR - 850 nm (Standard)
	10GBASE-LR - 1310 nm
	10GBASE-LRM - 1310 nm
Fault Tolerance	RJ-45 Ports are designed to withstand a maximum of 100 volts
USB Ports	Three USB 2.0 ports
eSATA Port	eSATA port for connecting external hard drive
Video Port	Standard VGA port for connection to monitor or projector
Cables	
Cable Types	100 Ohm UTP and ScTP category 5, 5E, 6, ISO/IEC Class C, D, E
Cable Length Measurement	Measurable cable lengths are from 3 feet (0.9 meters) to 500 feet (152 meters)
	Accuracy: ± 6 feet (± 2 meters)
	Length measurement is based on Nominal Velocity of Propagation (NVP) for selected cable type

Wireless Network Connection Specifications

Wireless Antennas

Internal Wireless Antennas	Seven internal 2.4 GHz, 1.1 dBi peak, 5 GHz
	3.2 dBi peak antennas
External Omni-directional Antenna	Antenna, WLAN, omnidirectional, 2.4 & 5 GHz
	802.11 a/b/g, 50 Ω. Gain: 2.1 dBi (2.45 GHz)
	2.4 dBi (4.9 GHz), 2.6 dBi (5.25 GHz), 2.5 dBi (5.875 GHz)
External Directional Antenna	Antenna, frequency range 2.4 - 2.5 and 4.9 - 5.9 GHz
	Minimum gain 5.0 dBi peak in the 2.4 GHz band, and 7.0 dBi peak in the 5 GHz band
External Antenna Connector	Reverse SMA

Wi-Fi Adapters	
Data Rate	802.11a: 6/9/12/24/36/48/54 Mbps
	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/24/36/48/54 Mbps
	802.11n (20 MHz): MCS0-23, up to 216 Mbps
	802.11n (40 MHz): MCS0-23, up to 450 Mbps
	802.11ac (80 MHz):MCS0NSS1-MCS9NSS3, MAX PHY rate 1.3 Gbps Operational throughput rate: up to ~400Mbps
Operating Frequency	2.412 – 2.484 GHz
	5.170 – 5.825 GHz
Security	64/128-Bit WEP Key, WPA, WPA2, 802.1X
Transmit output power (tolerance: +- 2dBm)	802.11a: 16 dBm ± 2 dBm @ 54 Mbps
	802.11b: 20 dBm ± 2 dBm @ 11 Mbps
	802.11g: 17 dBm ± 2 dBm @ 54 Mbps
	802.11gn HT20: 17 dBm ± 2 dBm @ MCS23
	802.11gn HT40: 16 dBm ± 2 dBm @ MCS23
	802.11an HT20: 15 dBm ± 2 dBm @ MCS23
	802.11an HT40: 15 dBm ± 2 dBm @ MCS23
	802.11ac VHT20: 13 dBm +/- 2 dBm @ MCS8NSS3
	802.11ac VHT40: 13 dBm +/- 2 dBm @ MCS9NSS3
	802.11ac VHT80: 11 dBm +/- 2 dBm @ MCS9NSS3
Receive Sensitivity (Tolerance: ±2 dBm)	802.11b : -88dBm@11Mbps
	802.11g : -74dBm@54Mbps
	802.11gn : -69dBm@HT20,MCS23
	802.11gn : -67dBm@HT40,MCS23
	802.11a : -73dBm@54Mbps
	802.11an : -68dBm@HT20,MCS23
	802.11an : -66dBm@HT40,MCS23
	802.11ac : -64dBm@VHT20, MCS8NSS3
	802.11ac : -63dBm@VHT40, MCS9NSS3
	802.11ac : -60dBm@VHT80, MCS9NSS30

Standards and Compliance Specifications

Supported Network Standards

IEEE 10BASE-TX, IEEE 100BASE-TX, IEEE 1000BASE-TX, IEEE 1000BASE-X, IEEE 10GBASE-X	RFCS: 1213, 1239, 1285, 1512, 1513, 1643, 2108, 2115, 2127, 2515, 2819, 3592, 3895, 3896, 4188, 4502
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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.

Models*

Product Noun	Description
OPVXG	**OptiView XG – Network Analysis Tablet, 1 Gbps
OPVXG-LAN	OptiView XG – Network Analysis Tablet, 1 Gbps, wired only
OPVXG-10G	**OptiView XG – Network Analysis Tablet, 10 Gbps
OPVXG-LAN-10G	OptiView XG – Network Analysis Tablet, 10 Gbps, wired only
OPVXG-PRO	**OptiView XG – Network Analysis Tablet, 1 Gbps with AirMagnet WiFi Analyzer and Spectrum XT
OPVXG-PROPLUS	**OptiView XG – Network Analysis Tablet with All WLAN Options
OPVXG-EXPT	**OptiView XG – Network Analysis Tablet, 10 Gbps with AirMagnet WiFi Analyzer and Spectrum XT
OPVXG-EXPTPLUS	**OptiView XG – Network Analysis Tablet, 10G with All WLAN Options

*Additional models, bundles, accessories and options are available. Go to enterprise.netscout.com/xg for details

**For sale only in countries where the XG wireless is certified.

NetScout Gold Support

Our support plans give you exclusive services and 24/7 technical assistance. Sign up for our Gold Support plan and you'll enjoy outstanding privileges to protect and add value to your investment in NetScout equipment. They include unlimited technical assistance seven days a week, 24 hours a day via phone or at our web support center. Repairs on covered items and "next day" dispatched loaner units for uninterrupted service. Free software upgrades. Web based training. Access to our extensive Knowledge Base library of operation and application related technical articles. And Gold "Members Only" special prices and promotions. Some benefits are not available in all countries.

See www.enterprise.netscout.com for more information.

For more information about OptiView XG, visit www.enterprise.netscout.com