



NETGEAR WG102 ProSafe 802.11g Wireless Access Point Specifications And Datasheet

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NETGEAR

NETGEAR WG102 ProSafe 802.11g Wireless Access Point



Product Description

Intelligent Networking Features for a Scalable, Secure Solution

NETGEAR's ProSafe 802.11g Wireless Access Point WG102 delivers the secure, reliable, high-performance wireless local area networks (WLANs) today's mobile workforce demands. This powerful device provides industry-standard access to corporate network resources, email, and the Internet. Fully compatible with IEEE 802.11g, (2.4 GHz), it can also be set for dynamic 108 Mbps 802.11g. With its robust security measures, simplified management, and configuration, SNMP support, integrated IEEE 802.3af power over Ethernet (PoE), and Wi-Fi certification, the WG102 brings standards-based enterprise-level functionality at a mid-market price.

- **Security**

Complies with industry security standards for wireless data encryption, and user authorization. 802.11i ready, WPA provides enhanced, interoperable wireless networking security. WPA and 802.1x support enable strong mutual authentication to ensure that only legitimate clients associate with corporate RADIUS servers. Supports MAC address authentication with 256-user Access Control List (ACL) and VPN pass-through.

- **Management**

Integrated IEEE 802.3af-based Power over Ethernet (PoE) support eliminates extra cables and the need to locate near a power outlet, as the access point is powered over the Ethernet cable. Supports Simple Network Management Protocol

(SNMP) MIB I, MIB II, and 802.11 MIB using SNMP-based network management software, such as NETGEAR ProSafe Network Management System NMS100. Supports all popular 802.1x port-based authentication protocols, including Extensible Authentication Protocol (EAP) Transport Layer Security (TLS), Protected EAP (PEAP), and Tunneled TLS (TTLS).

- **Aptitude**

IEEE 802.11g wireless standard – with optional speeds up to 108 Mbps – takes care of business communications with great dispatch and skill. Delivers functionality for point-to-point and point-to-multi-point bridging and repeater modes. High performance wireless features combine with a typical -75 dBm receive

sensitivity (Rx) at 54 Mbps, 19 dBm transmit power (Tx), and a high gain 5 dBi omni-directional antenna for optimal range and throughput.

- **Usability**

Cost effective, simple to install and use. Plenum rated – appropriate for placement above drop-down ceilings and under raised floors. Equipped with a convenient Smart Wizard™ browser-based interface. Fitted with a single, detachable 5 dBi antenna – compatible with NETGEAR's ProSafe antennas for expanded wireless capacity and range. Protected with a NETGEAR 3-year warranty.

Connection



Product Specifications

Wireless

- **Standard:** IEEE 802.11g 54 Mbps
- **Antennas:** One (1) 5 dBi detachable 2.4 GHz

Physical Interfaces

- **LAN Port:** One (1) 10/100BASE-T Ethernet (RJ-45) port with Auto Uplink™ (Auto MDI-X) with IEEE 802.3af Power over Ethernet (PoE) support
- **Power adapter:** Output 12 VDC, 1.2 A; plug is localized to country of sale
- **Four (4) LEDs:** Power, Test, 100 Mbps, Link/ACT, and WLAN 802.11g
- **Antenna Connector:** One (1) reverse SMA

Network Management

- Remote configuration and management through Web browser, SNMP or Telnet with command-line interface (CLI)
- SNMP management supports SNMP MIB I, MIB II, and 802.11 MIB

Advanced Wireless Features

- Bridging and repeater mode
- Adjustable transmit power control 100 mW down to 0 mW

Typical Maximum Power Output

- 802.11b mode, 1 to 11 Mbps +19 dBm
- 802.11g mode, 6 to 24 Mbps +18 dBm
- 802.11g mode, 36, 48 and 54 Mbps +17/16/16 dBm Note: Maximum Tx varies based on country and/or region selection to ensure local regulatory compliance.

Receive Sensitivity

- **802.11b**
 - 2 Mbps -93 dBm
 - 5.5 Mbps -91 dBm
 - 11 Mbps -89 dBm
- **802.11g**
 - 6 Mbps -91 dBm
 - 9 Mbps -90 dBm
 - 12 Mbps -89 dBm
 - 18 Mbps -87 dBm
 - 24 Mbps -84 dBm
 - 36 Mbps -81 dBm
 - 48 Mbps -77 dBm
 - 54 Mbps -75 dBm
 - 108 Mbps -73 dBm

Power Over Ethernet Required

- 4.3 W

Security

- Wi-Fi Protected Access (WPA) and 802.11i-ready
- Block SSID Broadcast
- VPN pass-through support
- MAC address filtering with access control lists – up to 256 users
- 802.1x RADIUS support with EAP TLS, TTLS, PEAP

NETGEAR Related Products

- FS108P ProSafe 8 Port 10/100 Desktop Switch with PoE
- FVL328 ProSafe™ VPN Firewall 100
- FVS338 ProSafe™ VPN Firewall 50

- FVS318 ProSafe™ VPN Firewall 8
- FWG114P ProSafe™ 802.11g Wireless Firewall with Print Server
- WAG511 Dual Band 802.11a/b/g Wireless PC Card
- WAG311 Dual Band 802.11a/b/g/ Wireless PCI Adapter
- WG511T 108 Mbps Wireless PC Card
- WG311T 108 Mbps Wireless PCI Adapter
- NMS100 ProSafe Network Management Software
- WG102 ProSafe™ Wireless Access Point 802.11g

Standards, Safety, and Electromagnetic Conformance

- IEEE 802.11g (2.4 GHz Frequency Band, DSSS Modulation Type)
- IEEE 802.3af Power over Ethernet (PoE)
- FCC Part 15 Subpart B and Subpart C
- CE EN 60950-1 (2001), EN 301 489-17 V1.2.1 (2002), EN 301 489-1 V1.4.1 (2002), EN 300 328-1 (2001-12), EN 300 328-2 (2001-12), R&TTE Directive 99/5/EC, CSIPR22(B), AS/NZS 3548 (B)
- Plenum Rated

Physical Specifications

- **Dimensions:** 14.1 x 10 x 2.7 cm (5.56 x 3.94 x 1.06 in.)
- **Weight:** 386 g (.85 lb)

Environmental Specifications

- **Operating temperature:** 0 to 40° C (32 to 104° F)
- **Operating humidity:** 90% maximum relative humidity, non-condensing

Warranty

- NETGEAR 3-year warranty

Package Contents

- ProSafe 802.11g Wireless Access Point WG102
- One (1) 5 dBi Detachable Antenna
- Resource CD
- Power adapter
- Ethernet cable
- Installation guide
- Warranty/support information card

System Requirements

- Windows® 98, Me, 2000, or XP
- 2 Mbytes of available disk space

Antennas and Accessories

- ANT2405 ProSafe 5 dBi Omni-directional antenna
- ANT2409 ProSafe 9 dBi Indoor/Outdoor Omni-directional Antenna
- ANT24D18 ProSafe 18 dBi Indoor/Outdoor Directional antenna
- Five (5) antenna cable lengths: 1.5, 3, 5, 10, and 30 m

NETGEAR Related Products

- FS108P ProSafe 8 Port 10/100 Desktop Switch with PoE
- FVL328 ProSafe™ VPN Firewall 100
- FVS338 ProSafe™ VPN Firewall 50
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- FWG114P ProSafe™ 802.11g Wireless Firewall with Print Server
- WAG511 Dual Band 802.11a/b/g Wireless PC Card
- WAG311 Dual Band 802.11a/b/g/ Wireless PCI Adapter
- WG511T 108 Mbps Wireless PC Card
- WG311T 108 Mbps Wireless PCI Adapter
- NMS100 ProSafe Network Management Software

Support

- **Address:** 4500 Great America Parkway Santa Clara, CA 95054 USA
- **Phone:** 1-888-NETGEAR (638-4327)
- **E-mail:** info@NETGEAR.com
- **Website:** www.NETGEAR.com

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- Free basic installation support is provided for 90 days from the date of purchase. Advanced product features and configurations are not included in free basic installation support; optional premium support is available.
- Actual performance may vary due to operating conditions.

FAQ's

What is the NETGEAR WG102 ProSafe 802.11g Wireless Access Point?

The NETGEAR WG102 is a ProSafe 802.11g Wireless Access Point designed to provide wireless network connectivity for various devices in a business or home environment.

What is the purpose of a wireless access point (WAP) like the WG102?

A wireless access point, such as the WG102, is used to create or extend a wireless network, allowing Wi-Fi-enabled devices to connect to a wired network.

What wireless standard does the WG102 support?

The WG102 typically supports the 802.11g wireless standard, providing data transfer speeds of up to 54 Mbps.

Is this access point compatible with both 2.4 GHz and 5 GHz frequencies?

The WG102 typically operates on the 2.4 GHz frequency band, so it may not support the 5 GHz frequency commonly used for dual-band Wi-Fi.

What is the range or coverage area of the WG102 access point?

The coverage area of the WG102 can vary based on factors like the environment and antenna configuration. Check the product specifications for coverage details.

Does the WG102 support Power over Ethernet (PoE) for easy installation?

Yes, the WG102 often supports Power over Ethernet (PoE), which allows for both data and power to be delivered through a single Ethernet cable, simplifying installation.

Can multiple WG102 access points be deployed to create a larger wireless network?

Yes, multiple WG102 access points can be deployed to create a larger wireless network and provide seamless coverage in larger areas.

What security features are included with the WG102 to protect the wireless network?

The WG102 typically includes security features like WPA and WEP encryption to secure the wireless network and prevent unauthorized access.

Is there a web-based management interface for configuring the WG102 access point?

Yes, the WG102 often includes a web-based management interface that allows users to configure and manage the access point's settings.

What is the maximum number of concurrent users supported by the WG102?

The maximum number of concurrent users that the WG102 can support may vary. Refer to the product documentation for specific user capacity details.

Does the WG102 access point support Quality of Service (QoS) for prioritizing network traffic?

Yes, the WG102 often supports Quality of Service (QoS) features, allowing for the prioritization of network traffic to optimize performance for specific applications.

What is the warranty coverage for the NETGEAR WG102 ProSafe 802.11g Wireless Access Point?

Warranty terms may vary, so it's advisable to check the specific warranty information provided by NETGEAR or the retailer when purchasing the access point.

References: [NETGEAR WG102 ProSafe 802.11g Wireless Access Point – Device.report](#)