ProSAFE® Premium 3 x 3 Dual Band Concurrent Wireless-N Access Point

Ultra High Throughput (900Mbps) and Superior Range with 802.11n 3x3 Access Point

- Dual band concurrent in 2.4 and 5 GHz radio band for maximum wireless throughput
- Stylish and elegant design with easy mounting options (e.g., ceiling, wall and desktop)
- Backward compatibility with 802.11a, 802.11g and 802.11b network devices
- Integrated Power over Ethernet (IEEE® 802.3af and 802.3at PoE) lowers deployment costs
- Deploy wireless coverage over large areas with point-to-point and point-to-multipoint bridging via Wireless Distribution System (WDS)
- Security features include WPA, WPA2, rogue AP detection and 802.1x with RADIUS support
- Internal antennas factory-optimized for maximum RF performance
- Advanced Security with Wireless Intrusion Detection (WIDS) and Wireless Intrusion Prevention (WIPS) support
- 802.11n beamforming to improve range and maximize data rates
- Device-based QoS to provide differentiated service level agreement to each user and device type
- Bandsteering to load balance clients between 2.4 and 5GHz
- Redundant dual Ethernet ports to ensure maximum reliability
- Centralized management with WC7600 and WC9500 Premium Wireless Controller

Target Applications

- Laptop PC, Tablet and Smartphone
- Connects to optional accessory antenna
- Connects to ProSAFE 24-port Gigabit Smart Switch with PoE (GS724TP)
- Unified Threat Management (UTM) with dual WAN Gigabit SSL VPN connectivity (SRX5308)
- Connects to Cable/DSL modem
- Option for AC power
- Connects to ProSAFE 24-port Gigabit Smart Switch with PoE (GS724TP)
- Connects to desktop PC
- Connects to optional accessory antenna
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## ProSAFE® Premium 3 x 3 Dual Band Concurrent Wireless-N Access Point

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<tbody>
<tr>
<td>Frequency</td>
<td>2.4GHz and 5GHz</td>
<td>2.4GHz or 5GHz</td>
<td>2.4GHz and 5GHz</td>
<td>2.4GHz</td>
</tr>
<tr>
<td>Transmit x Receive Radio Chains</td>
<td>3 x 3</td>
<td>3 x 3</td>
<td>2 x 2</td>
<td>2 x 2</td>
</tr>
<tr>
<td>Maximum theoretical throughput</td>
<td>900Mbps</td>
<td>450Mbps</td>
<td>600Mbps</td>
<td>300Mbps</td>
</tr>
<tr>
<td>Power over Ethernet (PoE) IEEE 802.3af</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PoE power consumption</td>
<td>10.51 Watts</td>
<td>10.51 Watts</td>
<td>10.75 Watts</td>
<td>5.8 Watts</td>
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<tr>
<td>Wireless Distribution System (WDS)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Repeater</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Bridge point-to-point/multi-point</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Simultaneous bridge &amp; wireless client association</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Separate bridge and access point</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Client Mode</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>SNMP</td>
<td>v1, v2c</td>
<td>v1, v2c</td>
<td>v1, v2c</td>
<td>v1, v2c</td>
</tr>
<tr>
<td>Antenna</td>
<td>Internal 5 dBi Three (3) External reverse SMA connectors</td>
<td>Internal 5 dBi Three (3) External reverse SMA connectors</td>
<td>Internal 5 dBi Two (2) External reverse SMA connectors</td>
<td>Internal 5 dBi Two (2) External reverse SMA connectors</td>
</tr>
<tr>
<td>User support with controller management</td>
<td>Up to 128 users</td>
<td>Up to 64 users</td>
<td>Up to 128 users</td>
<td>Up to 64 users</td>
</tr>
<tr>
<td>Security</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WiFi Protected Access (WPA/WPA2), 802.11i</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Multiple VPN pass-through support</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>MAC address filtering with access control lists--up to 256 users</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>802.1x RADIUS support with EAP TLS, TTLS, PEAP</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Rogue AP detection</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Block SSID Broadcast</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Secure SSH Telnet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Secure Socket Layer (SSL)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Remote management login</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Peer-to-peer blocking so users may not access another user’s PC</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>MBSSID/VLAN Support</td>
<td>16/17</td>
<td>16/17</td>
<td>16/17</td>
<td>8/9</td>
</tr>
<tr>
<td>WPA Support (WPA2 – Enterprise, 802.11i)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>User Interface</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Browser-based Interface</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Accepts accessory antennas</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Easy ceiling mounting/wall mounting</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>WIDS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>WIPS</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Bandwidth management</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>LLDP</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Bandsteering</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Controller management</td>
<td>WC7600 and WC9500</td>
<td>WC7600 and WC9500</td>
<td>WC7520, WC7600, and WC9500</td>
<td>WC7520, WC7600, and WC9500</td>
</tr>
</tbody>
</table>
Technical Specifications

Wireless Characteristics

Standards
- IEEE 802.11a 5GHz
- IEEE 802.11g, IEEE 802.11b, 2.4GHz
- IEEE 802.11n standard, 2.4GHz and 5GHz
- WMM – Wireless MultiMedia prioritization
- WDS – Wireless Distribution System
- Power over Ethernet (PoE) IEEE 802.3af and 802.3at

Physical Specifications
- Physical Dimensions (W x D x H): 253.75 x 253.76 x 54.76 mm (10.0 x 10.0 x 2.16 in)
- Weight: 1.5 kg (3.31 lb)

Physical Interfaces
- Two (2) 10/100/1000BASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink™ (Auto MDI-X) with IEEE 802.3af and 802.3at Power over Ethernet (PoE) support
- Power adapter: 12V DC, 1.5A; plug is localized to country of sale
- One (1) console port with RJ45 Interface
- Three (3) reverse SMA antenna connectors
- Five (5) LED: Power, Link/ACT, LAN, 2.4GHz, 5GHz

Security
- WiFi Protected Access (WPA, WPA2)
- Wired Equivalent Privacy (WEP) 64-bit, 128-bit, and 152-bit encryption
- IEEE 802.1x RADIUS authentication with EAP TLS, TTLS, PEAP
- Wireless access control to identify authorized wireless network devices
- MAC address authentication
- VPN pass-through support
- Secure SSH telnet
- Security Sockets Layer (SSL) remote management login

System Requirements
- 2.4GHz/5GHz 802.11n specification or 2.4GHz 802.11b/g wireless adapter or 5 GHz 802.11a wireless adapter
- Microsoft® Windows® Vista™, XP, 2000, 98, Me, Mac® OS, UNIX®, or Linux®
- Internet Explorer® 6.0 or Mozilla Firefox® 1.5

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, 802.11 MIB and proprietary configuration MIB

Controller Management
- WC7600 and WC9500

Advanced Wireless Features

Wireless Distribution System (WDS)
- Bridge mode: Point-to-point wireless WDS mode
- Bridge mode: Point-to-multipoint wireless WDS mode
- Repeater mode
- Adjustable Transmit Power Control (TPC) from 100 mW down to 0 mW

Package Contents
- ProSAFE® Premium Dual Band Wireless-N Access Point (WNDAP660)
- Ethernet cable
- Wall-mount kit
- Installation guide
- Resource CD
- 12V, 1.5A power supply
- Warranty/support information card

NETGEAR Warranty*
- This product is backed by a NETGEAR limited ProSAFE® Lifetime Hardware Warranty.
- ProSUPPORT™ Lifetime Chat Technical Support (Remote diagnostics performed by our technical experts for prompt resolution of technical issues).
- ProSUPPORT 90 days (24/7) Live Phone Technical Support during business hours.
- Lifetime Next Business Day (NBD) Hardware replacement (See http://onsite.netgear.com
for coverage, availability and terms and conditions).

* This product comes with a limited warranty that is valid only if purchased from a NETGEAR authorized reseller, and modifications to product may void the warranty; covers hardware, fans, and internal power supplies—not software or external power supplies, see http://www.netgear.com/about/warranty/ for details. Lifetime technical support includes basic phone support for 90 days from purchase date and lifetime online chat support when purchased from a NETGEAR authorized reseller. This product was tested for quality and its components may be recycled. For indoor use only.

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