



Remco Wireless Networking Solution

14 dBi Patch Panel Directional Antenna, for wireless (line of sight) connection up to 15.8 km (~9.8 miles) and WAG102 Wireless Router

ProSafe 14 dBi Patch Panel Directional Antenna

The ANT24D18 indoor/outdoor directional* antenna provides a 3-in-1 solution for mixed applications in combination with an 802.11b or 802.11g access point or wireless router.

One, it delivers extended access point range in a single floor environment ideally positioned in the corner of a building.

Two, it functions point-to-point so that you can wirelessly connect LANs between buildings in a campus-type environment.

Three, it provides multi floor transmission when placed on a ceiling, as the higher power output extends the range through typical flooring materials.

Includes several mounting options (fixed wall, wall adjustable, and pole), cable sold separately.

*Directional: Concentrates transmit and receive radio-frequency energy into a cone, or beam, for higher signal strength and reception in a single direction.

All NETGEAR antennas are FCC-approved to work with the following NETGEAR models: WAG302, WG302, WAG102, WG102, FVG318, and FWG114P.

ProSafe 14 dBi Patch Panel Directional Antenna - ANT24D18 Technical Specifications

Description: 14dBi Patch Panel Directional Antenna with reverse N female jack and reverse N to reverse SMA adapter

Typical Application: Indoor/outdoor long range point-to-point connections

Maximum Outdoor Range: 15.8 km (~9.8 miles)

Frequency Range: 2400 - 2500 MHz

Gain: 14 dBi

Beam Width: Horizontal 60°

Vertical 30°

Dimensions: 262 x 240 x 30mm (10.31 x 9.44 x 1.18 in)

Weight: 1520 g/3.35 lbs.

Package Contents: - 14 dBi Patch Panel Directional Antenna - ANT24D18

(cable required, sold separately)

- Wall and ceiling mount brackets and hanging materials

- One reverse N type to reverse SMA adapter

- 2 meter cable

- Lightning Arrestor

- Installation guide

- Warranty/Support information card

Warranty: Remco 3-year warranty

1 Range estimation is based on two wireless nodes each with an ANT24D18 antenna attached, associating with each other at 11 Mbps under ideal line-of-sight conditions.

2 Gain: A ratio of decibels to an isotropic antenna that is commonly used to measure antenna coverage.

Low-loss Antenna Cables

These 1.5 m, 3 m, 5 m, and 10 m antenna cables offer low loss at 2.4 GHz and added flexibility for setting up access points at a greater distance from a power source. They come with reverse SMA connectors and provide a standard connection optimized for use with NETGEAR's line of WLAN antennas, and Booster/Power Injector products (range can be drastically reduced if longer or higher loss cables than these are used.)



Due to Remco's policy of continuous improvements these specifications may be upgraded without notice.



Structural Management System

Product Specifications (WAG102)

- **Wireless:**
 - **Standard:** IEEE 802.11a up to 108 Mbps; 802.11g up to 108 Mbps Wireless Access Point
 - **Antennas:** Two (2) detachable antennas:(1) 5 dBi, 2.4 GHz and (1) 5 dBi 5 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:** 12 VDC, 1.0A power supply; plug is localized to country of sale.
 - **Six (6) LEDs:** Power, Test, 100 Mbps, Link/ACT, and WLAN 802.11g
 - **Antenna Connector:** Two (2) reverse SMA antenna connectors
- **Network Management:**
 - Remote configuration and management through Web browser, SNMP
 - SNMP management supports SNMP MIB I, MIB II, and 802.11 MIB
- **Advanced Wireless Features:**
 - Point-to-point wireless bridge mode
 - Point-to-multipoint wireless bridge mode
 - Repeater mode
 - Adjustable Transmit Power Control (TPC) from 100 mW down to 0 mW
 - RF Management functionality including auto power transmission, channel selection (Future firmware upgrade)
- **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 -94 dBm
 - 5.5 Mbps -92 dBm
 - 11 Mbps -90 dBm
 - **802.11g**
 - 6 Mbps - 91 dBm
 - 9 Mbps - 91 dBm
 - 12 Mbps - 90 dBm
 - 18 Mbps - 87 dBm
 - 24 Mbps - 85 dBm
 - 36 Mbps - 80 dBm
 - 48 Mbps - 75 dBm
 - 54 Mbps - 70 dBm
 - **802.11a**
 - 6 Mbps - 92 dBm
 - 9 Mbps - 91 dBm
 - 12 Mbps - 90 dBm
 - 18 Mbps - 86 dBm
 - 24 Mbps - 84 dBm
 - 36 Mbps - 79 dBm
 - 48 Mbps - 72 dBm
 - 54 Mbps - 70 dBm
- **Power Over Ethernet Required:**
 - 4.3 W
- **Security:**
 - 40/64-, 128-, and 152-bit WEP encryption
 - 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
 - Wi-Fi Protected Access (WPA2)
 - Secure Socket Layer (SSL) remote management login
- **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
 - IEEE 802.11g (2.4 GHz Frequency Band, DSSS Modulation Type)
 - IEEE 802.11a
 - IEEE 802.3af Power over Ethernet (PoE)
 - FCC Part 15 Subpart B, Subpart C and E
 - C-Tick: AS/NZ 3548 Class B
 - CE EN 60950-1 (2001), EN 301 489-17 V1.2.1 (2002-08), EN 301 489-1 V1.4.1 (2002-08), EN 300 328-1 (2001-12), EN 300 328-2 (2003--4), EN301893(5GHz),EN60601, R&TTE Directive 99/5/EC
- **Physical Specifications:**
 - **Dimensions (H x W x D):** 32 x 190.5 x 122 mm (1.25 x 7.5 x 4.8 in.)
 - **Weight:** .62 kg (1.3 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
- System Requirements**
 - Windows® 98, Me, 2000 or XP
 - 2 MB of available disk space



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