



NetPassage WPP54

WIRELESS 54/108*Mbps XR™ OUTDOOR ACCESS POINT
(WITH 8.5dBi INTEGRATED DIRECTIONAL ANTENNA)

NetPassage WPP54 is a high-performance Outdoor Access Point with integrated PoE. Using Atheros-based Wireless-G or Wireless-AG radios, WPP54 supports high-speed data transmission of up to 54Mbps or 108 Mbps*.

NetPassage WPP54 supports Multiple SSID. It can support up to 4 separate wireless broadcast domains. These wireless Virtual LANs (VLANs) enable separation of end-users, ensuring that broadcast traffic reaches only those recipients for which it is intended. Each VLAN can be secured with different authentication method, making it highly secure for enterprise applications.

NetPassage WPP54 is embedded with a 8.5dBi integrated directional antenna, supporting 2.4 GHz or 5GHz, depending on order configurations. WPP54 also supports the option of using an external antenna.

* Depends on Order Configuration

Multiple SSID

- Supports up to 4 virtual access points (VAP) per radio, with unique BSSIDs. Traffic from each VAP can be tagged to a unique VLAN and /or bridged if required. Each VAP will be able to configure their own security (WEP, WPA, and WPA2).

Long Range Support

- Suitable for long-range wireless deployment with Proprietary Long Distance Algorithm for ACK and CTS timeout adjustment support.
- Provides recommended values for the parameters and at the same time allows for manual fine-tuning for optimal performance.

8.5dBi Integrated Antenna

- Support either 2.4GHz or 5GHz range, depending on order configurations.
- Ability to use an External antenna

4.9GHz Public Safety Spectrum Supported

- WPP54 with Compex WLM54AG miniPCI supported the 4.9GHz spectrum specifically for homeland security and public safety related operation
- Variable 5,10 and 20 MHz Transmit Bandwidth

Wireless Distribution System (WDS)

- Using the RootAP and Transparent Client combination, access points can be connected together, using MAC Address/ ESSID.
- Repeater Mode allows RootAP to be connected to another RootAP, which in turn can be connected to another RootAP.

- ♦ **Weatherproof casing (IP55)**
- ♦ **Atheros eXtended Range technology**
- ♦ **Integrated Power-over-Ethernet(PoE)**
- ♦ **Supports 64/128-bit WEP, WPA, WPA2**
- ♦ **Multiple SSID feature with VLAN segmentation**
- ♦ **Wi-Fi Multimedia (WMM)**

Ordering Configurations**

CODES	SPEED	INTEGRATED ANTENNA	RADIOS	WIRELESS FREQUENCY		TRANSMIT POWER		RECEIVER SENSITIVITY	
WPP54 G	Up to 54Mbps	2.4GHz	WLM54G	802.11b/g	2.412 ~ 2.484 GHz	802.11b	20 dBm (+1.0/ -1.5 dBm)	802.11b	-92dBm @ 1Mbps -87dBm @ 11Mbps
						802.11g	20 dBm (+1.0/ -1.5dBm)	802.11g	-90dBm @ 6Mbps -70dBm @ 54Mbps
WPP54 AG	Up to 54Mbps	5GHz	WLM54AG	802.11a	4.9 ~ 5.850 GHz	802.11a	20 dBm (+1.0/ -1.5dBm)	802.11a	-90dBm @ 6Mbps -70dBm @ 54Mbps
				802.11b/g	2.412 ~ 2.484 GHz	802.11b	20 dBm (+1.0/ -1.5dBm)	802.11b	-92dBm @ 1Mbps -87dBm @ 11Mbps
						802.11g	20 dBm (+1.0/ -1.5dBm)	802.11g	-90dBm @ 6Mbps -70dBm @ 54Mbps

** Configurations are subjected to change without notice

Contact sales person for ordering configurations for different integrated antenna to be mounted.

Contact sales person for change in the radios used. Other options include using WLM54G (Super), WLM54AG (Super), WLM54G (High Power), WLM54AG (High Power)

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TECHNICAL SPECIFICATIONS

OPERATING MODES

- Access Point
- Client
- RootAP / Transparent Client
- Repeater
- Wireless Adapter
- Wireless Routing Client
- Gateway

WAN TYPE

- Static IP
- Dynamic IP
- PPPoE
- PPTP

DEVICE MANAGEMENT

- HTTP/HTTPS Web Server
- SNMP V2c
- Telnet / Secure Shell (SSH)

DATA CAPTURE & NOTIFICATION

- Event Logging (Syslog)
- Detailed Statistics per Client

VIRTUAL ACCESS POINT (VAP) :

- Up to 4 SSIDs with unique MAC Addresses (BSSID)
- 802.1q VLAN tag per VAP with Bridging
- Configurable Security (WEP,WPA,WPA2, MAC Filtering) per VAP

ADVANCED FEATURES

- Build-in DHCP server
- Transmission Power Control (One dB per step)
- Closed System (suppress SSID)
- Transmission Rate Control

POWER-OVER-ETHERNET

- Compatible with IEEE 802.3af PoE
- Compatible with Compex PoE Plus

SECURITY

- Station Isolation
- MAC Filtering
- 64 / 128-bit WEP
- 802.1x authentication
- WPA-EAP and WPA-PSK, WPA2

LED INDICATORS

Power, Diagnostic, LAN, WAN, WLAN

SUPPLIED POWER SUPPLY

24V, 10W Power Supply, PoE+ 6P0000

ANTENNA

8.5dBi integrated, directional antenna

NETWORK INTERFACE

LAN interface: 2* 10/100Mbps

TEMPERATURE

Operating -20°C to 70°C
Storage -30°C to 80°C

HUMIDITY

Operating 10%to 80% (non-condensing)

CERTIFICATION

FCC, CE Mark

DIMENSIONS & WEIGHT

Dimensions 218mm X 116mm X 55mm
Weight 420 grams (estimated)

OTHER PROMINENT FEATURES	DESCRIPTION
• Long Range Parameter Settings	Suitable for Long Range wireless deployment with high receiver sensitivity.
• Spanning Tree Protocol	Provides extra redundancy and able to auto-reconfigurable when there are changes in the network topology.
• Parallel Broadband (Only in Gateway)	Provide scalable Internet bandwidth with Load Balancing and Fail-Over Redundancy.
• IEEE 802.11h (DFS & TPC) DFS (On/Off) Ability	Enables worldwide operation through support for standards-based Dynamic Frequency Selection (DFS) and Transmission Power Control (TPC)
• SNMP Trap	SNMP Traps enable an agent to notify the management station of significant events by way of an unsolicited event.
• Antenna Control	Allows user to select which antenna connector on the radio to use. Options are: Internal – 8.5dBi Integrated Antenna External – External Antenna Auto – Automatically chooses the antenna which can receive more packets.
• Antenna Alignment	Allows user to adjust their external antenna to receive the optimum throughput.
• DHCP Relay (Only in Routing Mode)	Allows DHCP Clients on different subnets to get IP address from central DHCP server.
• Remote Upgrade of Firmware	Allows user to upgrade their firmware through Telnet/SSH
• Variable Transmit Bandwidths	Supports 5MHz, 10MHz, 20MHz spectrum in 4.9GHz Public Safety Spectrum
• Bandwidth Control(Only in Routing Mode)	Ability to limit the Upload/Download bandwidth at WAN/LAN ports
• RIP 1 / 2 (Only in Routing Mode)	Routing Information Protocol Version 1 / 2

Customizable Features***

CUSTOMIZABLE FEATURES	DESCRIPTION
• Custom Transmit Bandwidths	5MHz, 10MHz, 20MHz spectrum in other 'A' Bands
• Web Page Customization	Customize webpage for OEM customers.

*** Features Not Available on the Firmware. Please contact salesperson for customisation. Subjected to approval.

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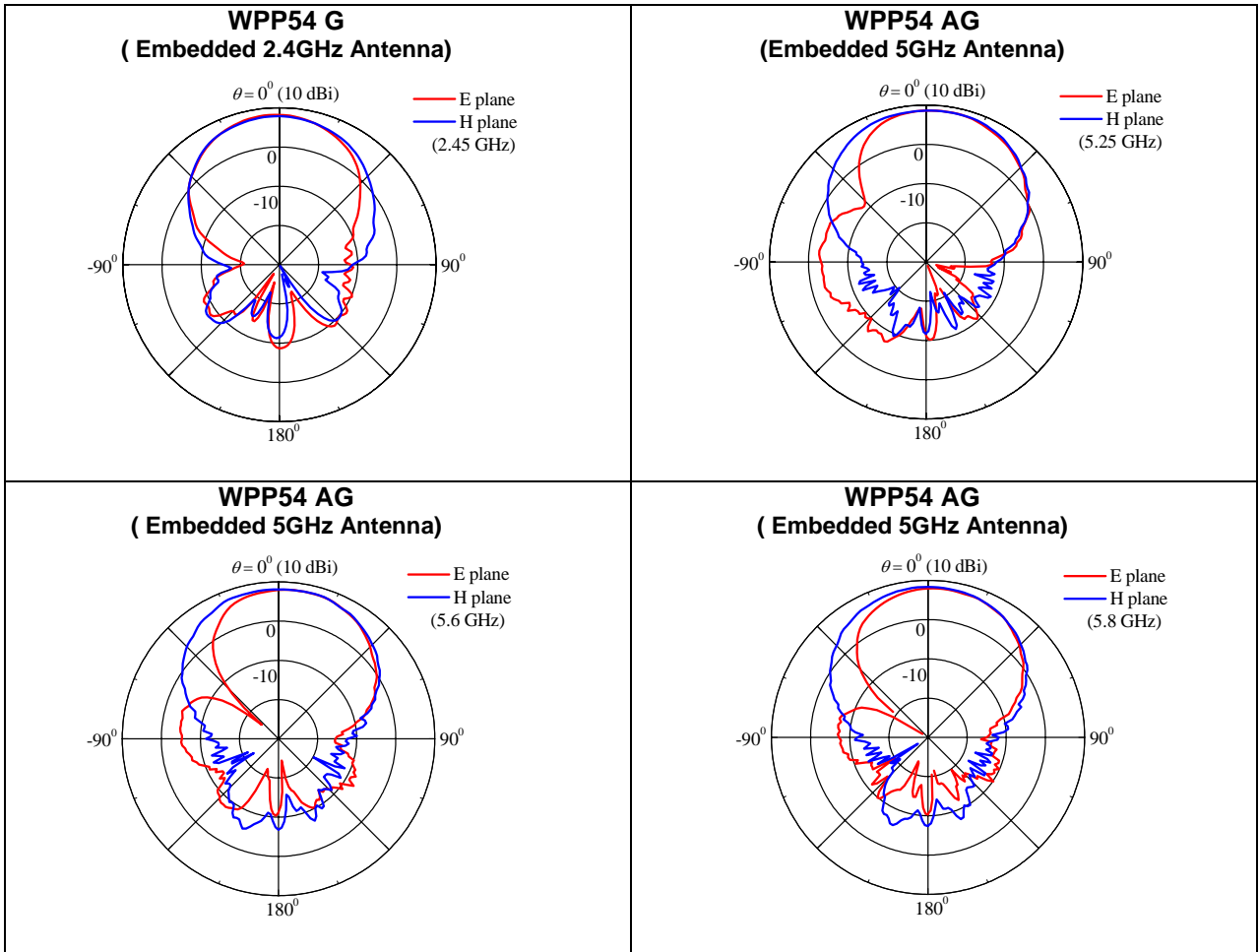
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8.5dBi Integrated Directional Antenna Polar Plots



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