product **datasheet**

COMPEX
networks@work

NetPassage WP54

WIRELESS 54/108① Mbps XR™ ACCESS POINT

- Atheros eXtended Range technology
- Integrated Power-over-Ethernet(PoE)
- Supports 64/128-bit WEP, TKIP, AES
- Multiple SSID feature with VLAN segmentation
- Antenna Alignment

NetPassage WP54 is a high-performance Access Point with integrated PoE. Using Atheros-based Wireless-G or Wireless -AG radios, WP54 supports high-speed data transmission of up to 54Mbps or 108 Mbps①.

NetPassage WP54 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 WP54 also incorporates features that are useful to system integrators, such as Antenna Alignment for adjusting your antenna to optimize performance, Syslog for event logging, as well as Telnet/SSH for easy device management.

① **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,TKIP, AES).

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.

4.9GHz Public Safety Spectrum Supported

- WP54 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

Bandwidth Control (Available in Routing Mode)

- Gives the administrator the choice to manage the bandwidth of subscribers in case massive data transfer slowdown Internet access of other users.
- Ability to limit the Upload/Download bandwidth at WAN/LAN ports using either IP address or MAC address.

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.

Ordering Configurations②

CODES	SPEED	RADIOS	WIRELESS FREQUENCY		TRANSMIT POWER		RECEIVER SENSITIVITY	
WP54 G	Up to 54Mbps	WLM54G	802.11b/g	2.412 ~ 2.484 GHz	802.11b	20 dBm (+1.0/ -1.5 dBm)	802.11b	<-90dBm @ 1Mbps < -70dBm @ 11Mbps
					802.11g	20 dBm (+1.0/ -1.5dBm)	802.11g	<-90dBm @ 6Mbps <-70 dBm @ 54Mbps
WP54 AG	Up to 54Mbps	WLM54AG	802.11a	4.9 ~ 5.850 GHz	802.11a	20 dBm (+1.0/ -1.5dBm)	802.11a	<-90dBm @ 6Mbps <-70 dBm @ 54Mbps
			802.11b/g	2.412 ~ 2.484 GHz	802.11b	20 dBm (+1.0/ -1.5dBm)	802.11b	<-90dBm @ 1Mbps < -70dBm @ 11Mbps
					802.11g	20 dBm (+1.0/ -1.5dBm)	802.11g	<-90dBm @ 6Mbps <-70 dBm @ 54Mbps

② **Configurations are subjected to change without notice**
Contact sales person for change in the radios used. Other options include using WLM54G (Super), WLM54AG (Super), WLM54G (High Power), WLM54AG (High Power)

NetPassage WP54

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,TKIP,AES,MAC Filtering) per VPN

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

POWER METHEOD
- Power-over-Enthernet(PoE) or Power Adapter

SECURITY
- Station Isolation
- MAC Filtering
- 64 / 128-bit WEP
- TKIP, AES
- 802.1x authentication

LED INDICATORS
Power, Diagnostic, LAN, WAN, WLAN

ANTENNA
2 dBi detachable SMA 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	145mm x 132mm x 41mm(H x W x D)
Weight	260 grams (estimated)

OTHER PROMINENT FEATURES	DESCRIPTION
• Long Range Parameter Settings	Suitable for Long Range wireless deployment with high receiver sensitivity.
• Antenna Control	Provides extra redundancy and able to auto-reconfigurable when there are changes in the network topology.
• Antenna Alignment	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)
• Variable Transmit Bandwidths	SNMP Traps enable an agent to notify the management station of significant events by way of an unsolicited event.
• SNMP Trap	Allows user to select which antenna connector on the radio to use. Options are MAIN/AUX/AUTO.
• Remote Upgrade of Firmware	Allows user to adjust their 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.
• RIP 1 / 2 (Only in Routing Mode)	Allows user to upgrade their firmware through Telnet/SSH
	Routing Information Protocol Version 1 / 2
• Parallel Broadband (Only in Gateway)	Supports 5MHz, 10MHz, 20MHz spectrum in 4.9GHz Public Safety Spectrum

Customizable Features③

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

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Product Information④

MODE NAME	SUPPORTED PoE TYPE	POWER REQUIREMENT	FLASH&MEMORY
WP54 6E	• Compatible with IEEE 802.3af PoE • Compatible with Compex PoE Plus	24VDC (Can Range from 24V to 48V DC)	• Embedded with 16MB (Up to 128MB max.)SDRAM&4MB Flash
WP54 6F	• Compatible with IEEE 802.3af PoE • Compatible with Compex PoE Plu	24VDC (Can Range from 24V to 48V DC)	• (Default) Embedded with 16MB (Up to 128MB max.)SDRAM&4MB Flash • (Optional) Embedded witch 16MB SDRAM & 256KB NOR Flash 32MB NAND Flash –Firmware is under development.
WP54 7A	• Compatible with Compex PoE Plus	24VDC (Can Range from 10V to24V DC)	• (Default) Embedded with 16MB (Up to 128MB max.)SDRAM&4MB Flash • (Optional) Embedded witch 16MB SDRAM & 256KB NOR Flash 32MB NAND Flash –Firmware is under development.

③ Features Not Available on the Firmware. Please contact salesperson for customization. Subjected to approval.

④ Configurations are subjected to change without notice