

## Technical Specifications

### Wireless-G MIMO Performance\* Solutions

	WHR-HP-G54	WLI-TX4-G54HP	WLI-CB-G54HP
<b>Wireless LAN Interface</b>			
Standard Compliance	IEEE802.11b/IEEE802.11g	IEEE802.11b/IEEE802.11g	IEEE802.11b/IEEE802.11g
Communication Protocol	Direct Sequence Spread Spectrum (DSSS), OFDM	Direct Sequence Spread Spectrum (DSSS), OFDM	Direct Sequence Spread Spectrum (DSSS)
Frequency Range	2.412 - 2.462 GHz (Channels 1-11)	2.412 - 2.462 GHz (Channels 1-11)	2.412 - 2.462 GHz (Channels 1-11)
Transmission Rate	802.11g 125* High-Speed Mode: 13, 20, 27, 40, 54, 80, 110, 125 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps	802.11g 125* High-Speed Mode: 13, 20, 27, 40, 54, 80, 110, 125 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps	125* High-Speed Mode: 13, 20, 27, 40, 54, 80, 110, 125 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps
Access Mode	Infrastructure mode, WDS	Infrastructure Mode, Ad-Hoc Mode	Infrastructure Mode / Ad-Hoc Mode
Security	WPA-PSK(AES, TKIP), 128/64-bit WEP, Wireless Power Output Setting, MAC Address Registration	WPA-PSK(AES, TKIP), 128/64-bit WEP	WPA-PSK (AES, TKIP), 802.1x Support (requires supplicant)
<b>Wired LAN Interface</b>			
Standards Compliance	IEEE802.3u(100 Base-TX) IEEE802.3(10 Base-T)	IEEE802.3u(100 Base-TX) IEEE802.3(10 Base-T)	
Transmission Rate	10/100 Mbps	10/100 Mbps	
Transmission Encoding Method	100 BASE-TX 4B5B/MLT-3 10 Base-T Manchester Coding	100 BASE-TX 4B5B/MLT-3 10 Base-T Manchester Coding	
Access Method	CSMA/CD	CSMA/CD	
LAN Port	10/100 Mbps, Auto Sensing, Auto MDIX	10/100 Mbps, Auto Sensing, Auto MDIX	
Number of LAN Ports	4	4	
WAN Port	10/100 Mbps, Auto Sensing, Auto MDIX High-Speed Routing to Support FTTH		
Number of WAN Ports	1		
WAN/LAN Port Connector Security	RJ-45 Dynamic Packet Filtering, Intrusion Detector	RJ-45	
<b>Other</b>			
Power Supply	100-240V AC Universal, 50/60 Hz	100-240V AC Universal, 50/60 Hz	
Power Consumption	About 3.4 W (Max)	About 3.4 W (Max)	
Dimensions	1.1 x 5.1 x 5.7 in. (28 x 130 x 144 mm)	1.1 x 5.1 x 5.7 in. (28 x 130 x 144 mm)	2.2 x 0.5 x 4.8 in. (55 x 13 x 122 mm)
Weight	9.5 oz. (270 g)	9.5 oz. (270 g)	2.1 oz. (60 g)
External Antenna Connector			MC Card Connector
Interface			32-Bit CardBus
Operating Environment	0-40°C, 10-85% (non-condensing)	0-40°C, 10-85% (non-condensing)	0-55°C, 20-80% (non-condensing)
<b>OS Support</b>			
		Works with All Major Operating Systems Simple Web-browser Setup No Drivers Needed for Setup	Windows® 2000, Windows® XP, Windows® Me, Windows® 98SE
<b>Related Products</b>			
Routers, Repeaters & Access Points	WLA2-G54C WLA2-G54L	WHR-HP-G54† WHR-G54S† WLA2-G54L WLA2-G54C	WHR-HP-G54† WHR-G54S† WLA2-G54L WLA2-G54C
Client Adapters	WLI-TX4-G54HP† WLI-CB-G54HP† WLI-CB-G54S† WLI2-PCI-G54S† WLI-U2-KG54-AI	WLI-CB-G54HP† WLI-CB-G54S† WLI2-PCI-G54S† WLI-U2-KG54-AI	WLI-TX4-G54HP† WLI-CB-G54S† WLI2-PCI-G54S† WLI-U2-KG54-AI
External Antennas	WLE-AT-DACB WLE-AT-DACW WLE-AT-NDRHB WLE-AT-NDRHW	WLE-AT-DACB WLE-AT-DACW WLE-AT-NDRHB WLE-AT-NDRHW	WLE-DA2 WLE-MYG WLE-HG-NDR

Buffalo Technology (USA), Inc. is a leading global provider of affordable, easy-to-use, next-generation wired and wireless network solutions for the consumer, SOHO and SMB markets. With its expansion into the U.S. retail market, Buffalo offers home users a full suite of wireless home networking solutions such as its award-winning line of AirStation 54g products; its 125\* High-Speed Mode™ 802.11g products; and its versatile line of 802.11a/b/g combo products. Buffalo completes its offerings with additional world-class networking solutions that include memory, storage and multimedia products – perfectly suited for any wireless environment.

\*This product uses a two antenna/single high power transmitter technology. It is not designed to anticipate 802.11n standards. Based on Buffalo Technology outdoor tests (see accompanying chart), this product outperforms two radio/three antenna MIMO technology beyond certain distances. Buffalo Technology testing also shows that this product equals or exceeds the performance of two radio/two antenna MIMO technology at all distances. When operating in High-Speed Mode, this Wi-Fi device achieves an actual throughput of up to 34.1 Mbps, which is the equivalent throughput of a system following 802.11g protocol and operating at a signaling rate of 125 Mbps. Actual data rate, features and performance may vary depending on your computer system, the environment and other factors.

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# BUFFALO™

4030 W. Braker Lane #120  
Austin, TX 78759  
800-456-9799

www.buffalotech.com

## Wireless-G MIMO Performance\*

AirStation  
Wireless Networking  
Solutions

5x further & 50% faster  
than standard 802.11g solutions



One-Touch  
Secure  
Wireless Setup

# BUFFALO™

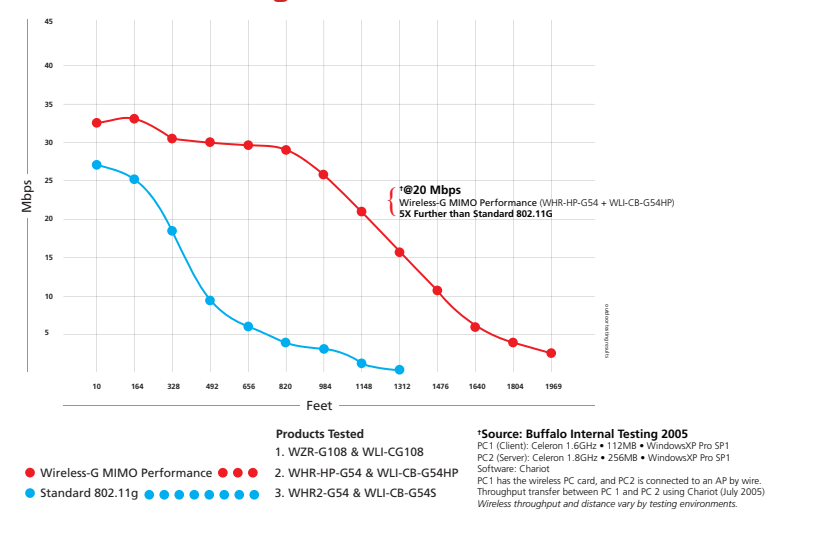
### Bring Dead Spots Back to Life!

Tired of hitting "dead spots" in your wireless network? Buffalo Technology's Wireless-G MIMO Performance\* products bring those dead spots back to life! Now you can go places you never could with standard 802.11g devices. With an effective outdoor range of up to 2000 ft., connecting in the bedroom or office down the hall should be no problem. Whether you're upgrading your wireless LAN or just getting started, the Wireless-G MIMO Performance\* Wireless Solutions provide the perfect answer for those who need Speed, Performance and Value. Combine Wireless-G MIMO Performance\* Router and Access Point with Wireless-G MIMO Performance\* Notebook Adapter or Ethernet Converter to achieve ultimate performance for your wireless LAN. Eliminate dead spots while enjoying faster connections and extended range.

### Wireless-G MIMO Performance\* features:

- Built-in amplifier improves wireless performance and extends range
- Up to 5X further & 50% faster than standard 802.11g solutions
- 802.11g wireless 125\* High-Speed Mode™ technology (Turbo G)
- Easy setup with AirStation One-Touch Secure System™ (AOSS™)
- Great Value. Higher performance than high speed 802.11g solutions at comparable prices.

### Standard 802.11g vs. Wireless-G MIMO Performance\*



WHR-HP-G54  
WLI-CB-G54HP

**5x** Further and **50%** faster than Standard 11g Solutions\*.  
**3.5x** Further than MIMO Solutions\*.

### Wireless-G MIMO Performance\* Router & Access Point



Uniquely equipped with a built-in signal amplifier, the WHR-HP-G54 produces a true 60% increase in wireless transmit power over a standard 802.11g wireless router. This Smart Router automatically detects and configures your Cable or DSL internet connection. In addition to fast wireless performance, WHR-HP-G54 features a built-in external switch between wireless router and wireless access point modes.

**Wireless Distribution System (WDS)**  
In Bridge/Repeater Mode (WDS), WHR-HP-G54 can wirelessly communicate with up to 6 Buffalo AirStations to cover dead spots!



WHR-HP-G54

### Wireless-G MIMO Performance\* NOTEBOOK ADAPTER



Uniquely equipped with a built-in signal amplifier, the WLI-CB-G54HP produces a true 35% increase in wireless transmit power over a standard 802.11g wireless notebook adapter. Combine this Notebook Adapter with optional Buffalo Technology antennas to achieve remarkable performance and range solutions.



WLI-CB-G54HP

### Wireless-G MIMO Performance\* ETHERNET CONVERTER



Designed for horizontal or vertical placement, this extremely versatile WLI-TX4-G54HP converts any device with an available Ethernet port into a wireless client while offering up to 4 wired simultaneous connections. Once the simple web browser based or AOSS™ is complete, WLI-TX4-G54HP can be moved from one device to another without reconfiguration. Great for Wireless Online Gaming!

#### Make Wired into Wireless!

- Game systems
- Laptops or Desktops
- Switches or Hubs
- Network Printers
- Hard Drives
- Network Media Players



WLI-TX4-G54HP