

## AirStation High Power Router with exclusive DD-WRT Firmware



Buffalo's Wireless-G MIMO Performance Router (WHR-HP-G54DD) is the first commercial, affordable router pre-installed with DD-WRT firmware. It is fully covered by Buffalo's 2-year warranty and support, providing a wide array of functionalities to ISPs, SMBs and SOHOs.

**| UNIQUE First commercial Router/Access point to come with DD-WRT firmware, preloaded**

**| Wide array of functionalities for SIs, SMBs and ISPs**

**| Fully technically supported**



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exclusive DD-WRT Firmware

### ISP Functions HotSpot applications

- Hot Spot Portal allows authentication and accounting.
- Multi-SSID Multiple SSIDs can be configured to separate Wireless networks on a single access point, segmenting guest and administrator access.
- WMM Wi-Fi Multimedia provides basic prioritisation of data packets based on four categories - voice, video, best effort and background.
- The QoS function has five QoS levels; Bulk, Standard, Express, Premium, and Exempt. QoS can be used to define the network traffic prioritisation in detail by service, network, MAC address or Ethernet port.
- DDNS: Dynamic Domain Name Server function resolves human-readable hostnames into IP addresses. This allows ISP to host a web/ftp server over the web with dynamic IP addresses.

### Mesh Networking Applications

- OLSR Optimised Link State Routing. This is a table driven and proactive protocol, which exchanges topology information with other nodes of the network regularly and so compute optimal forwarding paths locally. It is used to establish mesh networking.

- WDS with WPA : allows Wireless Distribution System interconnection of access points with WPA WiFi Protected Access security.
- Spanning Tree Protocol is a link management protocol that provides path redundancy while preventing undesirable loops in the network.
- SoHo/Small Business Applications

### Data Transfer Features

- VPN functionality included pass through feature for IPSec, VPN PPTP protocol support allows point to point VPN connection.
- Link Aggregation uses multiple Ethernet network cables/ports in parallel to increase the link speed beyond the limits of any one single cable or port and to increase the redundancy for higher availability. Limited availability in this access point allows 2port bonding only (HW limitation).
- WMM – see above
- QoS – see above
- DDNS – see above

## SPECIFICATIONS

LAN Interface	
Standard Compliance	IEEE802.11b/IEEE802.11g
Communication Protocol	Direct Sequence Spread Spectrum (DSSS), OFDM
Frequency Range	2.412-2.472GHz (1-13 channels)
Transmission Rate	802.11g 125* Afterburner Mode: 13, 20, 27, 40, 54, 80, 110, 125Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11b: 1, 2, 5.5, 11Mbps
Access Mode	Infrastructure Mode, WDS
Security	WPA2, WPA-PSK (AES, TKIP), 128/64bit WEP, RADIUS, MAC Address Registration, Wireless Power Output Setting

Wired LAN Interface	
Standards Compliance	IEEE802.3u(100 Base-TX) IEEE802.3(10 Base-T)
Transmission Rate	10/100Mbps
Transmission Encoding Method	100 BASE-TX 4B5B/MLT-3 10 Base-T Manchester Coding
Access Method	CSMA/CD
LAN Port	10/100Mbps, AutoSensing, Auto MIDX
Number of LAN Ports	4
WAN Port	10/100Mbps, AutoSensing, Auto MIDX High-Speed Routing to Support FTTH
Number of WAN Ports	1
WAN/LAN Port Connector	RJ-45
Security	Dynamic Packet Filtering, NAT/SPI Firewall

Others	
Power Supply	100-240V AC Universal, 50/60Hz
Power Consumption	About 3.4W (Max)
Dimensions (WxDxH)	28 x 130 x 144mm
Weight	270g
Operating Environment	0-40C, 10-85% (non-condensing)

### Product Part Numbers

WHR-HP-G54DD

### About Buffalo

Buffalo Technology UK Ltd. is a leading global provider of award-winning storage, networking, memory, and multimedia solutions for the home and small business environments as well as for system builders and integrators. With almost three decades of networking and computer peripheral experience, Buffalo has proven its commitment to delivering innovative solutions that have put the company at the forefront of infrastructure technology.

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