

Buffalo AirStation™ G54

54 Mbps* Wireless Ethernet Converter – WL12-TX1-G54

The **Buffalo AirStation Wireless 54 Mbps* Ethernet Converter** is an extremely versatile Wireless client adapter. Any device with an available Ethernet port can be made wireless in minutes with AirStation One-Touch Secure System (AOSS™). Connect Wirelessly to Gaming consoles, Desktops, Notebooks, Media Players, Printers, Scanners. The Ethernet Converter is AOSS enabled allowing you to use Buffalo's AirStation One-Touch Secure Setup. Once the simple Web Browser based setup is complete, the Ethernet Converter can be moved from one device to another, without reconfiguration. You can add an optional Buffalo indoor antenna for extended range and performance.

- AOSS™ Support – With AOSS Button
- 54 Mbps* Wireless Data Rates
- Wi-Fi 802.11g (802.11b compatible)
- 128/64 Bit WEP Security
- Optional External Antenna for Increased Range
- Compact Design
- Simple Web Browser Setup

AOSS™ - One Click. One Touch. Done.

- (1) Press the AOSS button on the router to initiate the AOSS session.
- (2) Click on the AOSS button on the Ethernet Converter.



- **Done** - A secure connection is automatically established between the Router and the Ethernet Converter.

Easily converts Ethernet-ready

- game systems
- laptops
- switches or hubs
- printers
- desktops
- scanners

into wireless devices.



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Technical Specifications

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Wireless LAN (802.11g, 802.11b)

Standards Compliance	IEEE802.11g, 802.11b
Frequency Range	2.412 - 2.462 GHz (1 - 11channel)
Transmission Mode	DSSS, OFDM, Half-Duplex
Transmission Rate	802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps
Security	WEP, Password
Access Mode	Infrastructure Mode, Ad-Hoc Mode

Wireless Interface

Wired	IEEE802.3(10 Base-T/100 Base-TX)
Connector Type	RJ-45
Transmission Encoding	10 Base-T Manchester coding
Method	100 Base-TX 4B5B/MLT-3
Access Method	CSMD/CD
Transmission Rate	10/100 auto sensing

Others

Buttons	AOSS button and Reset button
Weight	256 g (9 oz.) (includes power supply)
Dimensions	56 x 120 x 92 mm (2.2 x 4.8 x 3.6 in.)
Work Environment	0-40°C, 20-40% humidity (non-condensing)

Communication Range

Speed	Indoor	Outdoor
54 Mbps*	65 ft.(20 m)	165 ft.(50 m)
18 Mbps	195 ft. (60 m)	490 ft. (150 m)
11 Mbps	245 ft.(75 m)	590 ft.(180 m)
1 Mbps	410 ft.(125 m)	1870 ft.(570 m)

All distances are estimated. Wireless connections may be affected as physical conditions and circumstances vary.

Support Available for:	Works with all major OS, web browser setup (Setup utility is only supported in Windows)
Package Contents:	Ethernet Converter, Power Supply, Setup CD with User Manual, Setup Guides, Warranty Statement
Related Products:	AirStation 54 Mbps* Wireless Cable/DSL Routers and Access Points, External 2.4 GHz Antennas

How AOSS Handles Security:



When two or more AOSS clients attach to the AOSS network, the client and router automatically negotiate the highest level of security that the clients and router can support. In the above example, one of the AOSS clients supports both WEP and WPA level encryption (TKIP and AES), while the other supports only WEP. AOSS automatically adjusts the security to a level that both clients support.

*54 Mbps is the IEEE 802.11g standard theoretical maximum data transfer rate. Actual wireless network throughput is limited by environmental and system factors and will be less.
†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.



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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.

With its new AirStation One-Touch Secure System (AOSS™), Buffalo offers the ultimate in ease-of-use and security. The company's commitment to its customers and technological innovation has put Buffalo at the forefront of networking technology and is the foundation for its leading position among the top WLAN vendors worldwide.



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