

Business Switch

24-port Unmanaged Layer 2 Gigabit Switch

BUFFALO

BS-G2124U

The great solution for businesses' wired switching needs—24-port Gigabit switch

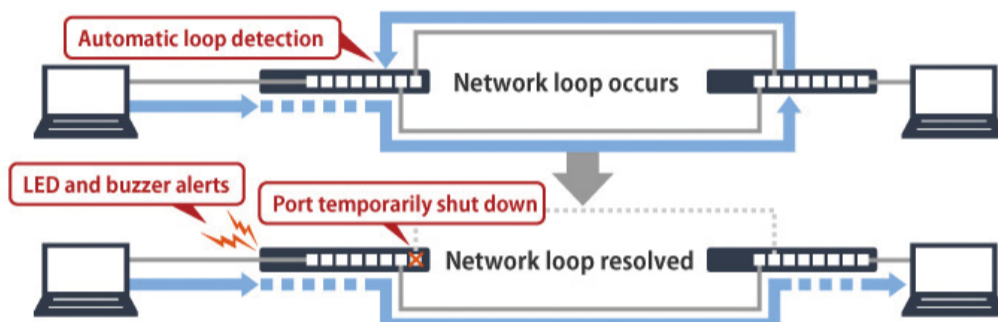
■ All ports support Gigabit network connections

This unmanaged switch features Gigabit Ethernet interfaces at all ports, making it an optimal switch for businesses upgrading their networks to handle Gigabit traffic.

Giga



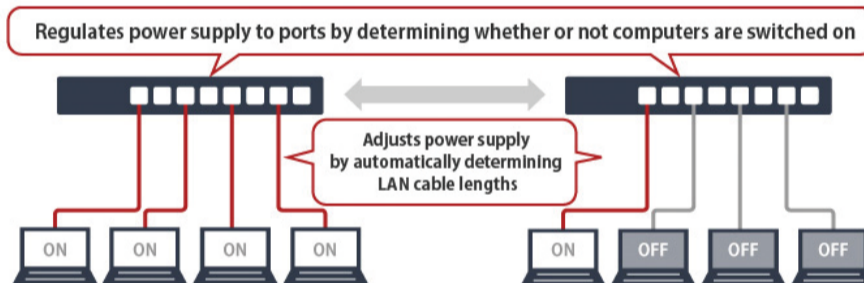
■ Loop detection/prevention reduce administrative burden



Certain network topologies or routings create loops in the signals that can result in serious problems such as blocked switches, inaccurate forwarding of signals, use of all the available bandwidth, and can even bring the network down. This switch features an automatic detection and prevention function that avoids these problems, thus also reducing the administrative burdens needed to correct these problems and their effects.



■ Automatic energy-saving features



Energy-saving features automatically reduce power consumption without configuration:

- Standby mode adjusts power consumption according to the number of ports used, save power up to 57%*.
- Auto Power Save function saves energy automatically by supplying power only to the ports that are connected and in use.
- Power supply is adjusted automatically based on the cable length.



BCN AWARD 2011

Features

- 1000Base-T/100 BASE-TX/10 BASE-T Auto-negotiation 24 ports
- IEEE802.3ab (1000BASE-T), IEEE802.3u(100BASE-TX), IEEE802.3(10BASE-T) standard compliance
- IEEE802.3az (EEE) standard compliance
- Loop detection (buzzer and LED notification)
- Auto-Negotiation & Auto MDIX - simply plug in, no settings needed
- Full/Half-duplex auto-detect 1000/100/10 Mbps
- Silent and reliable fanless design
- Compact metal case with excellent heat dissipation
- Design permits flexibility in placement

- Includes metal brackets for 19-inch rack or wall mounting
- Energy-saving features automatically reduce power consumption without configuration:
 - Standby mode adjusts power consumption according to the number of ports used
 - Auto Power Save function saves energy automatically by supplying power only to the ports that are connected and in use
 - Power supply is adjusted automatically based on the cable length
- EAPOL (802.1X) /BPDU frame transmission supported
- Learns up to 8,192 MAC addresses
- 3-year warranty

BS-G2124U

Specifications

Model

BS-G2124U

Wired LAN Interface

Standard Compliance	IEEE802.3ab (1000BASE-T), IEEE802.3u(100BASE-TX), IEEE802.3(10BASE-T), IEEE802.3az (EEE)
Transmission Rate	1000 Mbps (1000BASE-T), 100 Mbps (100BASE-TX), 10 Mbps (10BASE-T)
Forwarding Method	Store & Forward
Latency	100M 64bytes 3.4 µper sec (S&F)
Buffer Capacity	256 KB
Signal Coding	4D-PAM5 (1000BASE-T), 4B5B/MLT-3 (100BASE-TX), Manchester Coding (10BASE-T)
Access Method	CSMA/CD
Data Transmission Rate	1,488,095 packet/s (1000BASE-T), 148,810 packet/s (100BASE-TX), 14,881 packet/s (10BASE-T)
Address Table	8,192 MAC addresses (Self-Learning Method)
Number of Ports	24 ports (Auto-MDIX)
Connector Type	RJ-45 8-Pin
Cable Support	1000BASE-T: UTP category 5 or more, 100BASE-TX:UTP category 5 or more, 10BASE-T:UTP category3 or more
Transmission Distance	Max. 100m
Switched Fabrics	48 Gbps

Other

Power Supply	AC 100-240V 50/60Hz
Power Consumption	Max. 16.5 W (at 100V)
Consumption Current	Max. 0.35A (at 100V)
Calorific Value	Max. 59.4kJ/h (at 100V)
Dimensions (WxHxD)	300×180× 43 mm
Weight	2.3 kg
Operating Environment	0-45°C, 10-85% RH (Non-condensing)
Warranty	3-year

Package Contents

24-port Gigabit Business Switch BS-G2124U

- Power cord
- Power cable retaining band
- Mounting fixtures (with screws)
- Rubber feet
- Serial number sticker (1 set of 2)
- User's manual
- Warranty statement

Supported Functions

Auto-Negotiation (1000/100/10, Full/Half-Duplex)

Auto-MDIX

IEEE802.3x flow control

Back pressure

Error packet filtering

Eco mode [Depending on number of connection, cable length]

EAPOL(IEEE802.1X) frame transparent

BPDU frame transparent

* Testing conducted by BUFFALO in September 2011

Compared power consumption between all ports are in use and not in use. <Devices> BS-G2124U, Power meter: YOKOGAWA WT210, IXIA LSM1000MV16 Data Quality Analyzer <Measurement Method> Data was transferred from the data analyzer to the switching hub, and the power consumption was measured 1 minute after data transfer was started.

** With computer that is operating WakeOnLAN (WOL) function, power saving function works when WOL function is OFF.

About BUFFALO

www.buffalo-asia.com

BUFFALO Inc., based in Nagoya, Japan, is a leading global provider of award-winning networking, storage and multi-media solutions for the home and small business environments as well as for system builders and integrators. With three decades of networking and computer peripheral experience, BUFFALO has proven its commitment to delivering innovative, best-of-breed solutions that have put the company at the forefront of infrastructure technology.