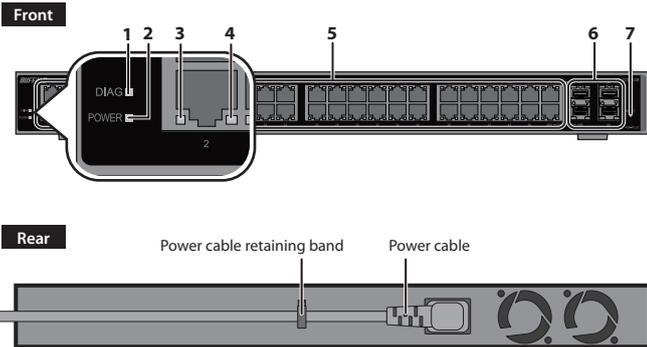


# Quick Setup Guide

## Package Contents

Business switch .....	1	Rubber feet .....	4	- Keep the warranty statement at hand to request covered repairs.
Power cable .....	1	Serial number label.....	1	- Unless clearly permitted in the product documentation, do not use other accessories (such as cables) with this product other than those included in the package.
19 inch rack metal fittings.....	2	Warranty statement.....	1	
19 inch rack metal fittings screws .....	8	Quick setup guide.....	1	
Screws for 19 inch rack.....	4			
Power cable retaining band .....	1			

## Diagrams and Layout



- |                         |   |
|-------------------------|---|
| <b>1. Diag LED</b>      | On (green): The switch is in normal condition.<br>On (red): Booting, executing self-diagnostic, or initializing.<br>Blinking (red): A fan error occurred.<br>Slow blinking (red): A loop is detected. |
| <b>2. Power LED</b>     | On (green): Power is on.<br>Off: Power is off.  |
| <b>3. Link/Act LEDs</b> | On: Link is established.<br>Blinking: Transmitting data.<br>Off: Link is not established.   |
| <b>4. Speed LEDs</b>    | On (green): 1000 Mbps link.<br>On (amber): 100 Mbps link.<br>Off: 10 Mbps link or no link.  |
| <b>5. LAN Ports</b>     | These are ports for connecting 1000BASE-T/100BASE-TX/10BASE-T devices.  |
| <b>6. SFP Ports</b>     | Connect your SFP modules to these ports.  |
| <b>7. Reset Button</b>  | Press and hold this button for 3 seconds to initialize the switch.  |

## 1. Install Business Switch Configuration Tool

Install "Business Switch Configuration Tool" to access Settings easily.

- 1** Boot your Windows PC connected to the Internet.
- 2** Access the following URL and download the "Business Switch Configuration Tool".

<http://d.buffalo.jp/BS-GS2048/>

- 3** Double-click the file. Open the folder and double-click "BSSet2\_Setup.exe".
- 4** Follow the installer screens.

## 2. Installation

- 1** Decide where to install the switch and follow the procedure below.

### Floor or Shelf Mounting

Attach the supplied rubber feet to the bottom corners of the unit before use.

**Notes:**

- Place the switch on a flat surface near the AC inlet. Set it more than 2 inches from the wall for aeration.
- To use multiple switches in a stack, attach the rubber feet to each switch and stack them on top of each other.

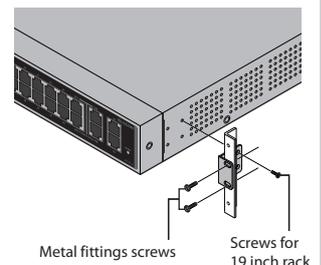
### Installing on 19-inch Rack

Install as shown in the figure below by using the supplied mounting brackets.

**Notes:**

- Confirm that the temperature inside of the rack is within range of the operating environment.
- Do not stack another device on top of the switch installed on the rack.
- Do not let the power supply circuit of the rack overload.
- Make sure that the switch installed on the rack is grounded.

- 1** Install metal fittings on the switch by using screws for 19 inch rack. Remove rubber feet if attached.
- 2** Use 4 metal fittings screws to fix the switch on the rack.



### Wall Mounting

To mount the unit to a wall, use 2 screws (not included) with the dimensions shown on the right. Screws should be installed 11.32 inches apart. Slide the mounting holes on the base of the switch over them.



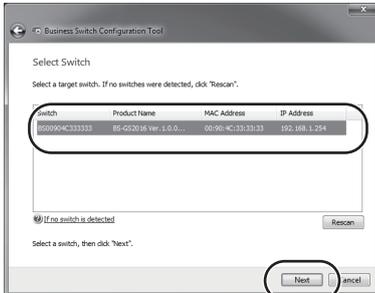
- 2** Connect the power cable to the switch.
- 3** Confirm that the power LED is on.

Refer to "3. Open Settings" on overleaf to continue.

## 3. Open Settings

Access Settings to change or confirm your switch's settings.

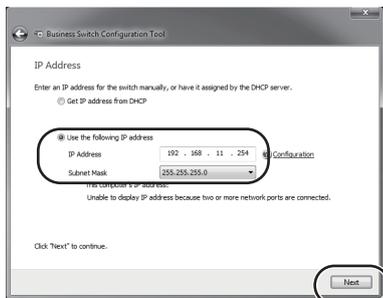
- 1 Connect the switch to your PC and your network with an Ethernet cable (sold separately). Confirm that link/act LED of the connected port is on.
- 2 Double-click the  icon to open Business Switch Configuration Tool. 
- 3 Click *Next* to start searching for the switch.
- 4 Select the switch and click *Next*.



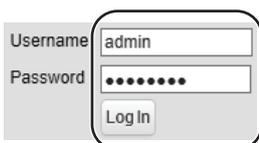
- 5 Click *Change IP Address*.



- 6 Configure the switch's IP address to match the segment of the IP address of your PC and click *Next*. If the password input screen is displayed, enter "password" and click *Next*.



- 7 Click *Back to Select Switch* and select the switch again; click *Next*, then click *Settings (Web Admin Interface)*.
- 8 Click *OK* to launch a web browser and display login screen. Enter "admin" as the username and "password" as the password, then click *Log In*.



- 9 Settings will be displayed. To configure switch settings, refer to the user manual. The user manual can be downloaded from the URL below.

<http://d.buffalo.jp/BS-GS2048/>

## Password Notice

Do not lose the switch's password, or you will not be able to configure settings. If you lose the password, press and hold the reset button for 3 seconds to initialize all switch settings. If the reset button is disabled, contact Buffalo technical support.

## Technical Specifications

### Specifications

Standards	IEEE802.3 (10BASE-T), IEEE802.3u (100BASE-TX), IEEE802.3ab (1000BASE-T), IEEE 802.1Q VLANs, IEEE 802.3ad Link Aggregation Control Protocol (LACP), IEEE802.3x (flow control), IEEE802.1X (RADIUS), IEEE 802.1W rapid spanning tree, IEEE 802.1D spanning tree
LAN Transmission Rate	10/100/1000 Mbps
Switching Method	Store and forward
Transmission Encoding	8B1Q4/4D-PAM5 (1000BASE-T) 4B5B/MLT-3 (100BASE-TX) Manchester encoding (10BASE-T)
Access Method	CSMA/CD
Throughput	14,881 packets/second (10BASE-T) 148,810 packets/second (100BASE-TX) 1,488,095 packets/second (1000BASE-T)
Buffer Capacity	3.0 MB
Jumbo Frame	Up to 9 KB
MAC Address Table	16,384
Ports	48 LAN + 4 SFP
Compatible Cables	10BASE-T: two-pair category 3 or higher UTP cable 100BASE-TX: two-pair category 5 or higher UTP cable 1000BASE-T: four-pair category 5e or higher UTP cable
Transmission Distance	100 m
Connector	RJ-45
Power Supply	AC 100-240 V 50/60 Hz
Power Consumption	38.3 W (Max)
Dimensions	17.32 (W) x 1.69 (H) x 10.12 (D) in
Weight	About 132.3 oz
Operating Environment	0-50°C (32-104°F), 10-85% (non-condensing)
Acquired Standards	VCCI Class A, FCC Class A, Canada IC Class A, UL

### Default Settings

Switch Name	BS + switch's MAC address
IP Address	192.168.1.254
Subnet Mask	255.255.255.0
Default Gateway	0.0.0.0
Username/Password	admin/password

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.