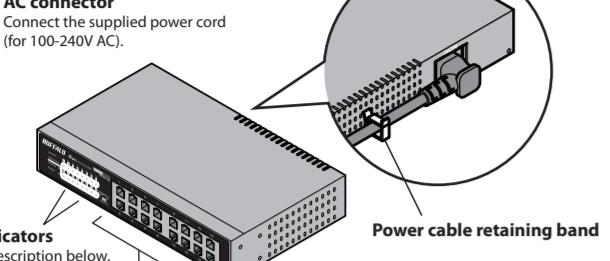


**Package Contents**

The package contains the items shown below. If any items are missing, please contact the dealer where you purchased the BS-G2116U.

The appearance of the BS-G2116U may vary from the illustration.

**●Switching hub (main unit) ······ 1****AC connector**

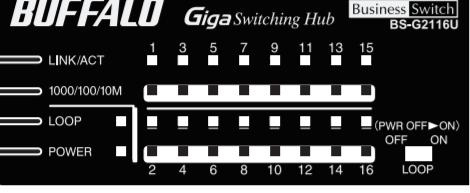
Connect the supplied power cord (for 100-240V AC).

**LED indicators**

See the description below.

**1000BASE-T/100BASE-TX/10BASE-T ports**

These are ports for connecting 1000BASE-T/1000BASE-TX/10BASE-T devices. These ports are also used when two hubs are connected in a cascade configuration. The transmission speed is recognized automatically.

**LED Indicators****① LINK/ACT LEDs**

These indicate link status and activity for the ports.

Lit (green): Linked

Flashing (green): Sending or receiving data

② 1000/100/10M LEDs

These indicate the transmission speed.

Lit (green): Operating at 1000M

Lit (orange): Operating at 100M

Off: Operating at 10M

**●Power cord ······ 1****●Rubber footpads ······ 4****●Serial number stickers (1 set) ······ 1 set****●Mounting fixture screws ······ 8****Installation****■ Installation Notes**

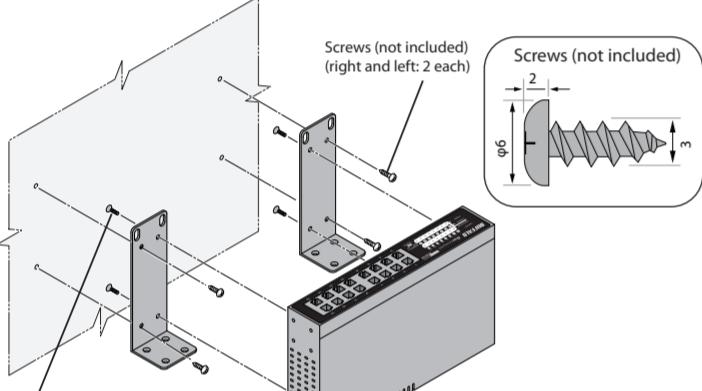
- Do not install on an unstable location such as a wobbly stand or slanted surface.
- Do not place other devices or objects that generate heat on top of this product.
- Arrange the cables neatly to avoid entangling your feet or objects in them.
- Do not block the ventilation holes of the BS-G2116U with another device, walls, or other objects.
- Be sure to always use the power cord supplied with the BS-G2116U. Cords for other products will have different specifications, and their use could cause a breakdown of the BS-G2116U or a fire.

**■ Mounting to a Wall**

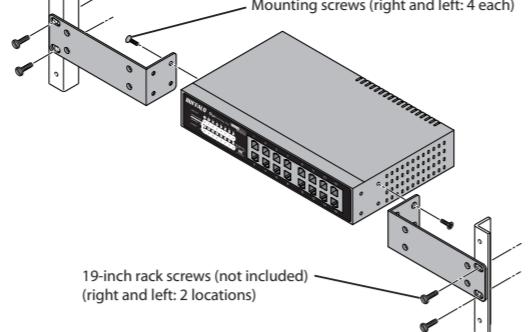
The BS-G2116U is mounted to a wall using the supplied mounting brackets or the mounting holes on the bottom. When using the mounting brackets, use the mounting screws as shown in the figure below, and then the mounting fixture and the BS-G2116U.

To mount the unit directly to the wall, attach the screws to the wall first and then slide the holes on the bottom of the BS-G2116U over the screws.

Before mounting to a wall, check that the wall surface has sufficient strength, and secure firmly so that the main unit, power cord, and LAN cables do not fall due to their weight.

**Installing on 19-inch Rack**

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

**Product Specifications**

For the latest product information and compatible models, refer to our product catalog or website ([www.buffalotech.com](http://www.buffalotech.com)).

**■ Basic Specifications**

Compliant Standards IEEE802.3 (10BASE-T), IEEE802.3u (100BASE-TX), IEEE802.3ab (1000BASE-T)

Number of Ports 16

Compatible Cables 10BASE-T: Category 3 or higher 2-pair or 4-pair UTP cables

100BASE-TX: Category 5 or higher 4-pair UTP cables

1000BASE-T: Enhanced category 5 or higher UTP cables

Connector Type RJ-45, 8-pole

Power Supply 100-240 V AC, 50-60 Hz, 0.75 A

Power Consumption 9.0 W (max.)

Dimensions 215 mm x 130 mm x 43 mm

Weight (main unit) 1.1 Kg (main unit only)

Operating Environment Temperature: 0~45°C, Humidity: 10~85% (No condensation)

Acquired Standards VCCI ClassA, FCC ClassA, UL, cUL, IC ClassA, CCC, KC ClassA, CE ClassA, C-tick ClassA, PSE

\*1 Because the BS-G2116U automatically recognizes the cable type (straight or cross cable), either cable can be used without any problems.

\*2 The use of self-manufactured cables can cause the network to fail to operate properly. Please use cables that are available commercially.

**■ Function Specifications**

Transmission Speed 10 Mbps (10BASE-T), 100 Mbps (100BASE-TX), 1000 Mbps (1000BASE-T)

Switching Data Transmission Method Store & Forward

Jumbo Frame Max. 16,000 Bytes

Transfer Router Coding System Manchester coding (10BASE-T), 4B5B/MLT-3 (100BASE-TX), 4D-PAMS (1000BASE-T)

Access Method CSMA/CD

Data Transfer Speed (Throughput) 14,881 packets/sec (10BASE-T), 148,810 packets/sec (100BASE-TX), 1,488,095 packets/sec (1000BASE-T)

Address Table 8,192 (self-running)

Buffer Size 256 KB

Aging Time Approx. 300 sec

Flow Control IEEE802.3x (flow control for full duplex operation), Back pressure (for half duplex operation)

Transmission Distance up to 100 m

Loop Blocking Function (\*3) Included

Power Save Function (\*4) Included (link status, cable length)

\*3 See "Loop Detection" on this sheet.

\*4 The power save function automatically recognizes the port link status and LAN cable length and adjusts the operating power accordingly.

**■ If you are unable to connect to a network**

Check the following points.

\* Is the power cord connected to this product? Also, is the power cord plugged into the outlet?

\* Are the UTP cables connected correctly? Are any cables disconnected or broken?

\* Are any Link/Active LEDs lit?

**Loop Detection**

The BS-G2116U includes a function for blocking a network loop which can cause interference in the network.

**■ What is a loop?**

A loop is a configuration where the data continues to cycle around the network, such as when both ends of a LAN cable connected to the same hub or hubs are connected in a looped (circular) configuration. If the data continues to cycle around, network communication can be impaired and may eventually fail.

**■ Loop blocking operation**

OFF: Loops are not blocked.

ON : If a loop is detected, the port is blocked until the loop is broken. Also, the Loop Block LED and the LED for the blocked port on the front of the BS-G2116U flash, and a buzzer sounds. To stop the buzzer, set the loop blocking switch to OFF.

**■ Switching the loop blocking function ON/OFF**

1. The loop blocking switch on the front of the BS-G2116U can be switched ON or OFF.

(PWR OFF → ON) OFF → ON (PWR OFF → ON) OFF → ON

2. Unplug the power cord from the outlet and then plug it again.

The setting of the switch doesn't take effect until power is disconnected and reconnected.

**■ When a loop is detected**

Reconnect so that the cables are not connected in a loop.

The loop blocking LED will continue to flash until the loop is broken and the power is turned OFF and then ON again.

**CAUTION** \* When the loop blocking function is set to ON, loop detection packets are sent regularly (approx. 2-second intervals) from the BS-G2116U. If you do not want loop detection packets to be sent, use the loop blocking function set to OFF.

\* The loop blocking function does not prevent interference from every possible type of loop.

**■ Installation注意事项**

\* 请勿安装在不稳定的位子(例如不稳定的支架或倾斜的表面)进行安装。

\* 不要将本产品上放置其他可能产生热量的设备或物品。

\* 整齐地排列缆线，以避免缠住您的脚或其他的物品。

\* 请勿用另一个装置、墙或其他物品堵住 BS-G2116U 的通风口。

\* 请务必使用 BS-G2116U 附随的电源线。其他产品的电源线将有不同的规格，因此使用它们可能导致 BS-G2116U 故障或引起火灾。

\* 请勿安装在墙上之前，请先检查墙面是否有足夠力量，然後牢固固定，以便主機、電源線及 LAN 纜線不會由於自身重量而掉落。

\* 裝戴到牆上之前，請先檢查牆面是否有足夠力量，然後牢固固定，以便主機、電源線及 LAN 纜線不會由於自身重量而掉落。

\* 請勿在牆上直接裝戴到牆上。首先將螺絲釘裝戴到牆上，然後將 BS-G2116U 底部的孔滑到螺絲釘上方。

\* 在裝戴到牆上之前，請先檢查牆面是否有足夠力量，然後牢固固定，以便主機、電源線及 LAN 纜線不會由於自身重量而掉落。

\* 請勿在牆上直接裝戴到牆上。首先將螺絲釘裝戴到牆上，然後將 BS-G2116U 底部的孔滑到螺絲釘上方。

