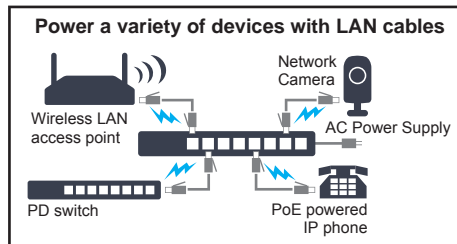# BS-POE-G2124M / BS-POE-G2116M / BS-POE-G2108M

This Web smart switch features Gigabit interfaces for all ports. This supports VLAN, QoS, and wide variety of other functions enabling flexible network configurations, making this an optimal switch for aggregating separate hubs. Comes in 24-, 16-, and 8-port models.

BS-POE-G2124M

■ All ports feature high-output power supply Giga switches

These switches supply the power needed to run multiple network cameras, wireless access points, and other devices requiring high output power supplies, and allows the power supply to be managed from the PoE switches. The units are also equipped with

Power a variety of devices with LAN cables
Wireless LAN access point — Network Camera — AC Power Supply — PD switch — PoE powered IP phone
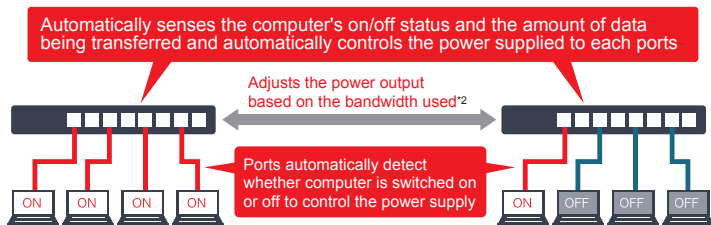
BS-POE-G2116M

BS-POE-G2108M

Gigabit switches, an optimal choice for IEEE 802.11n and 802.11ac wireless LAN backbones. What's more, this product eliminates the need for wiring construction work to connect devices, with no AC adapters to plug in, either, thereby tremendously lowering costs.

■ "Auto Power Save NEXT" conserves electricity automatically

The energy-saving "Auto Power Save NEXT" feature automatically detects each port's link status and LAN cable length and automatically adjusts the power output for energy savings of up to 28.8%*1. This offers enormous power savings to offices and other locations where large numbers of computers are shut down during nighttime hours.
In addition to the energy-saving features of the original "Auto Power Save," the new "Auto Power Save NEXT" feature also supports "Low Power Idle" mode (IEEE 802.3az Energy Efficient Ethernet)*2, helping offices save energy automatically, even during business hours.

Automatically senses the computer's on/off status and the amount of data being transferred and automatically controls the power supplied to each ports
Adjusts the power output based on the bandwidth used*2
Ports automatically detect whether computer is switched on or off to control the power supply
ON ON ON ON / ON OFF OFF OFF

*1 Figure for the BS-POE-G2124M. Maximum savings with the BS-POE-G2116M is approximately 22.1%, with the BS-POE-G2108M approximately 14.3%.
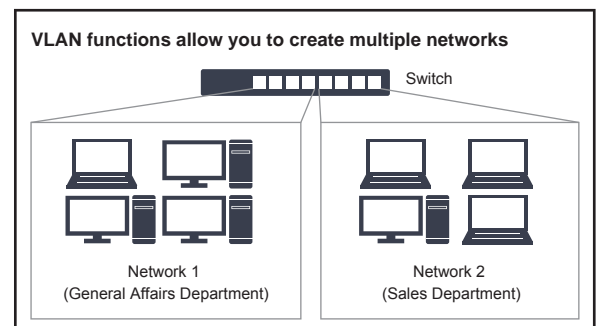<Measurement Environment> Wattmeter: YOKOGAWA WT210, Test load device: IXIA LSM1000MV16
<Measurement Method> Data was transferred from the test load device to the switch, with power consumption measured 1 minute after the start of the data transfer.
*2 Use of "Low Power Idle" mode requires that the function be supported by both of the connected devices.

■ Ample functions to manage VLAN and other features

With a VLAN, the switch divides a single network into multiple networks, allowing each individual network to operate according to different criteria based on usage and security levels. Plus, in addition to VLAN, the switches feature a full compliment of functions that administrators need.

VLAN functions allow you to create multiple networks
Switch
Network 1 (General Affairs Department)
Network 2 (Sales Department)

Features

- All ports Gigabit-supported
- 24-, 16-, and 8-port models
- VLAN, QoS, other functions
- LEDs indicate establishment of Gigabit link
- A variety of Qos (Quality of Service) functions to control signal priority

- Jumbo Frame
- Loops indicated by flashing LEDs and buzzer
- Included hardware enables mounting in 19-inch racks
- PoE profiler function checks wasted PoE power
- Automatically distinguishes between straight and crossover cables
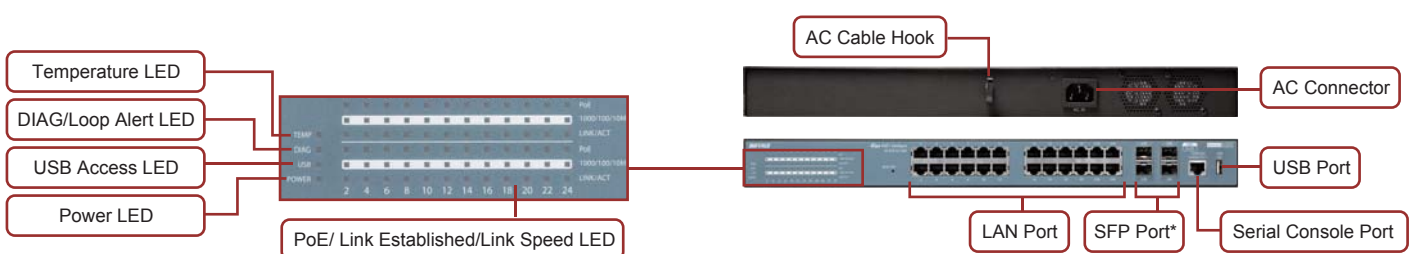
BS-POE-G2124M / BS-POE-G2116M / BS-POE-G2108M

Specifications

■ LAN Interface

Standard Compliance	IEEE 802.3 (10BASE-T), IEEE 802.3u (100BASE-TX), IEEE 802.3ab (1000BASE-T), IEEE 802.3z (1000BASE-SX/1000BASE-LX)
Speed and Flow Control	10/100/1000 Mbps
Data Transfer Method	Store-and-Forward (S/F)
Latency	[BS-POE-G2108M] 4.5 μsec (w/1000M, 64-byte, S/F), [BS-POE-G2116M] 4.5 μsec (1000M, 64-byte, S/F), [BS-POE-G2124M] 4.7 μsec (1000M, 64-byte, S/F)
Buffer Capacity	512 KB
Flash Memory	8 MB
Main Memory	64 MB
Channel Coding Scheme	Manchester coding (10BASE-T), 4B5B/MLT-3 (100BASE-TX), 4D-PAM5 (1000BASE-T)
Access Method	CSMA/CD
Data Transfer Rate	14,881 packets/s (10BASE-T), 148,810 packets/s (100BASE-TX), 1,488,095 packets/s (1000BASE-T)
Address Table	8,192 addresses (aging time: 300 seconds)
MAC Address Learning Method	SVL
PoE Connection Method	Alternative A
Number of Terminals	[BS-POE-G2108M] 10/100/1000: 8 ports (all ports feature Auto-MDIX function) [BS-POE-G2116M] 10/100/1000: 16 ports (all ports feature Auto-MDIX function) [BS-POE-G2124M] 10/100/1000: 24 ports (all ports feature Auto-MDIX function)
Compatible Cables	10BASE-T: UTP/STP Category 3 and above; 100BASE-TX: UTP/STP Category 5 and above; 1000BASE-T: UTP/STP Category 5e and above
Transmission Distance	Maximum 100 m
Port shape	RJ-45
SNMP	Supported
Console Port	RS-232C (RJ-45)
Number of VLANs	256 (VLAN ID: 1-4,094)

■ Others

Dimensions (W x H x D)	[BS-POE-G2108M] 270 x 231 x 43 mm, [BS-POE-G2108M] 330 x 231 x 43 mm, [BS-POE-G2124M] 440 x 257 x 43 mm
Weight	[BS-POE-G2108M] 2.5 kg, [BS-POE-G2108M] 3.0 kg, [BS-POE-G2124M] 4.1 kg
Power Consumption	[BS-POE-G2108M] Max 211W, [BS-POE-G2108M] 260W, [BS-POE-G2124M] 266 W
Power Supply	100-240 V, 50/60 Hz

Temperature LED
DIAG/Loop Alert LED
USB Access LED
Power LED
PoE/ Link Established/Link Speed LED

AC Cable Hook
AC Connector
USB Port
LAN Port
SFP Port*
Serial Console Port

*SFP Port is not available on BS-POE-G2108M

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.