Overview

Simple L2 Network switch with PoE

Features

- RJ45 Connectors: 5 front (Ports available for PoE power supply: 4)
- Maximum power supply: 30W per port (70W all ports)
- The functions can be set via the CONFIGURATION switches (L2MS switch, Flow control switch, Auto MIDI/MIDI-X switch, Loop detection switch, energy save mode switch)
- The Yamaha LAN Monitor application for Windows computers provides a comprehensive single-screen view of all necessary parameters.
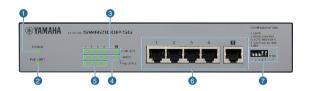
Specifications

General Specifications

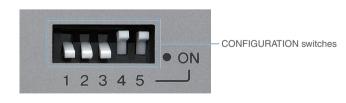|		
LAN Port	Standard	IEEE802.3 (10BASE-T/100BASE-TX/1000BASE-T)
	Number of Ports	5 ports
Performance	Switching Bandwidth	10 Gbit/s
	Forwarding Rate	7.44 Mpps
	Flame Buffer	192 KB
Ports Available for PoE Power Supply		4 ports (port 1–4)
PoE Standards		IEEE 802.3at
Power Supply System		Alternative A
Maximum Power Supply	Per Port	30W (Varies depending on the power consumption class of each connected device.)
	All Ports	70W
Compatible PoE Powered Devices		PoE powered devices that comply IEEE 802.3af standards or IEEE 802.3at standards
Switches		CONFIGURATION switches for modifying the settings (L2MS switch, Flow control switch, Auto MIDI/MIDI-X switch, Loop detection switch, energy save mode switch)
Indicators		POWER, PoE LIMIT, LINK/ACT, SPEED, PoE STATE (x 16)
Operating Environment		Ambient temperature: 0 to 40 °C, Ambient humidity: 15 to 80% (no condensation)
Storage Environment		Ambient temperature: -20 to 50 °C, Ambient humidity: 10 to 90% (no condensation)
Power Supply Voltage, Frequency		AC100 V to 240 V, 50 Hz/60 Hz
Power Consumption		86 W
Dimensions (W x H x D)*		220 mm x 40.5 mm x 250 mm (8.7" x 1.6" x 9.8")
Weight		1.6 kg (3.5 lbs)
Accessories		Owner's Manual; power cord; power cord clamp; feet

* Without any protrusion or feet

Controls and Connectors

1 POWER indicator
2 PoE LIMIT indicator
3 LINK/ACT indicator
4 SPEED indicator
5 PoE STATE indicator
6 LAN ports
7 CONFIGURATION switch

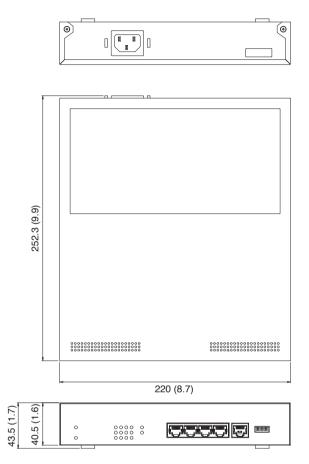The functions which can be set via the CONFIGURATION switches are as follows.

CONFIGURATION switches

No.	Setting function	OFF	ON
1	L2MS (Layer 2 Management Service) function	Disabled	Enabled*
2	Flow control	Disabled	Enabled*
3	Auto MDI/MDI-X	Disabled	Enabled*
4	Loop detection function	Disabled*	Enabled
5	Low power consumption mode	Disabled*	Enabled

* This is the factory default setting.

Dimensions

Unit: mm (inch)

252.3 (9.9)

220 (8.7)

43.5 (1.7)
40.5 (1.6)

Options

• Rack Mount Accessory   RK-SWR

Software

• Yamaha LAN Monitor

Architectural and Engineering Specifications

The Yamaha SWR2100P-5G shall be a simple five-port L2 switch optimized for networked audio installations. Five RJ-45 connectors shall be provided on the front panel for network connection via Ethernet cables. Four of the five RJ-45 connectors provided shall be capable of supplying power to PoE powered network devices. Each PoE-compliant port shall be capable of supplying up to 30 watts, up to a maximum of 70 watts total for all ports. A DIP switch accessible via the front panel shall allow enable/disable configuration of five functions: Layer 2 Management Service for Yamaha network device management, Flow Control, auto MDI/MDI-X, Loop Detection, and a low power consumption mode. Front-panel LED indicators shall show the LINK/ACT, SPEED, and PoE status of each port. A dedicated Yamaha LAN Monitor software application for Windows operating systems shall allow comprehensive monitoring of SWR2100P-5G status (including PoE power supply status and the amount of power supplied) as well as the entire network, including connected Dante devices. The power supply shall be built in so that no external AC adapter is required. The SWR2100P-5G shall feature a quiet, fanless design. An optional rack mount accessory shall allow one or two SWR2100P units to be mounted in a 1U rack space. Dimensions shall be 220 (W) x 40.5 (H) x 250 (D) mm. Weight shall be 1.6 kg.