

24-port Gigabit Ethernet with 16-port 802.3at/af PoE Switch

PS2416G

⦿ Features:

- Comply with IEEE 802.3, IEEE 802.3u 10/100/1000Base-TX, IEEE 802.3x, IEEE 802.3ab 1000Base-T, IEEE802.3az Ethernet Standard
- 24 (10/100/1000Mbps) Switch
- Each Gigabit Switching UTP ports support auto-negotiation-10/100/1000Mbps
- Auto-MDI/MDI-X detection on each RJ-45 port
- Prevents packet loss with back pressure (half-duplex) and 802.3x PAUSE frame flow control (full-duplex)
- High performance Store and Forward architecture
- Provide 48Gbps switch fabric, non-blocking switch architecture
- 8K MAC address table, automatic source address learning and ageing
- 4.1Mbit packet buffering. Jumbo Frame: 10K byte (Max).
- 19-inch rack mount with holder



⦿ Description:

Yoda PS2416G series provides 24 Gigabit Ethernet Switch ports with 16-port IEEE 802.3at/af PoE capacity. It supports MDI / MDI-X convertible on 24-10/100/1000Mbps ports and provides PoE inject function on PoE ports which are able to IEEE 802.3af/at compliant powered devices remotely.

With its 48Gbps non-blocking switch fabric, 8K MAC Address table, and 802.3x, full-duplex flow control, the PS2416G series offers wire-speed packet transfer performance without risks of packet loss.

All 24 Gigabit Ethernet RJ-45 copper interfaces support 10/100/1000Mbps and 1000Mbps auto-negotiation for optimal speed detection through RJ-45 Category 6, 5 or 5e cables. MDI/MDI-X auto detection is provided for direct wire connection to any Ethernet devices like switches, hubs, or workstations without requiring a crossover cables. Through the front panel LED indicators, users can easily tell the network connection status directly from the indicators.

The PS2416G series also provides a simple, cost-effective, and highly reliable network connection for data and power transmission. Furthermore, it is the ideal device for bridging among Fast Ethernet, Gigabit Ethernet workgroups and networks. It fits all kind of Ethernet installations such as campus, workgroup, department, enterprise, telecom or industrial applications.

Hardware Specifications:

Items	Specifications
10/100/1000 BASE-TX	24 RJ-45 Auto-MDI/MDI-X ports
Packet buffer	4.1Mbit SRAM
MAC Table size	8K
Max Packet Size	10K Bytes
Switching capability	14880pps at 10Mbps, 148810pps at 100Mbps, 1488095pps at 1Gbps with 64bytes packets.
Switch capacity	48Gbps
Forwarding Rate	35.712Mpps
Switch Processing Scheme	Store-and-forward
Flow Control	Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex
19" Rack-Mount	Yes, with kits
Dimension	440(W) x 200(D) x 44(H) mm, 1U height
Weight	3.8kgs
Environmental Temperature	Operating: 0 ~ 50°C Storage: -20 ~ 70°C
Humidity	10% ~ 90% (non-condensing)
LED Display	Per Port : LINK (Green: Gigabit, Yellow:10/100M) Per Device : Power and System PoE : Enable (Green) / Disable (LED OFF)
Power Input	AC Power input (100V~240V), 5A 50-60 Hz
Power over Ethernet	
PoE Standard	IEEE 802.3at/af Power over Ethernet / PSE
PoE Power Supply Type	End-Span
PoE Power Output	Per Port 56VDC, Max. 30 watts (802.3at)
PoE Pin Assignment	1/2(-), 3/6(+)
Power Budget	Max. 500 Watt

Hardware Specifications:

Items	Specifications
Standards Conformance	
Regulation Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3x (full-duplex flow control) IEEE 802.3az (Energy Efficient Ethernet)

Ordering Information:

Ps2416GA	24p GE Switch, 16p 802.3at/af PoE, 500 watts DC power
PS2416GAL	24p GE Switch, 16p 802.3at/af PoE, 380 watts DC power
PS2416G	24p GE Switch, 16p 802.3at/af PoE, 250 watts DC power
PS2416GL	24p GE Switch, 16p 802.3at/af PoE, 150 watts DC power

Application Diagram:

