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OS2410P/120W

8-Port Gigabit Ethernet Web Smart PoE Switch with 2xGigabit SFP Ports

8x10/100/1000Base-T PoE+ (30 W), 2x1000Base-X SFP, 120W PoE Budget, PoE up to 250 m, 19'' rack mounting

OS2410P/120W is a Web smart L2 PoE switch with 8x10/100/1000Base-T PoE+ ports and 2x1000Base-X SFP ports.

The ORIGO OS2410P/120W switch is recommended for building of small and medium enterprises' networks that need a modern gigabit solution with Web management functions for increasing bandwidth at level of aggregation and organization of remote power supply to surveillance cameras, wireless access points, IP phones and other PoE devices.

The ports 1-8 support 802.3af/at PoE standards, providing up to 30 W for each port and a total PoE budget of 120 W. Built-in ESD protection meets industry surge standards, guarding the switch and connected devices from damage and network instability caused by ESD and lightning-induced surges.

The switch is suitable for use in video surveillance systems (CCTV). The Extend PoE mode allows to overcome the standard Ethernet limit of 100 m and connect IP cameras at a distance of up to 250 m at speeds up to 10 Mbit/s, simplifying installation and reducing costs when building CCTV networks. The PD Alive function allows you to monitor PoE-powered devices and automatically restart unresponsive devices.

The OS2410P/120W supports traffic separation using 802.1Q VLAN, Loopback Detection, Port mirroring, DHCP Snooping, and QoS for prioritization of latency-sensitive traffic. The storm control feature limits the amount of broadcast, multicast or unknown unicast traffic, blocks or drops packets that are subject to the limit and prevents network congestion. The cable diagnostic function allows you to determine the condition of the twisted pair and the type of cable malfunction.

Key Features

- 8x10/100/1000Base-T 802.3af/at PoE ports
- 2x1000Base-X SFP ports
- Total PoE budget – 120 W
- Adapted for CCTV: PoE up to 250m, PD Alive
- Automatic detection and protection against damage to equipment with and without PoE
- 802.1Q VLAN, QoS, IGMP Snooping
- Loopback Detection and cable diagnostics
- Web management
- Wall and 19" rack mountable

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Specifications

Hardware

CPU and Memory	• CPU: RTL8382L • Flash: 16 MB
Interfaces	• 8x10/100/1000Base-T (RJ-45) PoE ports • 2x1000Base-X SFP ports
Standards and Functions	• IEEE 802.3 10Base-T • IEEE 802.3u 100Base-TX • IEEE 802.3ab 1000Base-T • IEEE 802.3z 1000Base-X • IEEE 802.3af PoE • IEEE 802.3at PoE • IEEE 802.1Q (VLAN) • IEEE 802.1p (QoS) • IEEE 802.3x (Flow Control) • Auto-negotiation of speed and duplex mode • Auto MDI/MDIX on all copper ports

LEDs	• Power
	  - On – power on state
	  - Off – power off state
	• Link/Act (Ports 1 – 10)
	  - Always bright – terminal device is connected
	  - Flicker – data pass
	  - Off – no connection
	• PoE (Ports 1 – 8)
	  - Always bright – PoE device is connected
	  - Flicker – port abnormal PoE supply
	  - Off – PoE device is not connected

Buttons	• Reset
Ventilation	• 1 fan
Power	• Power connector (AC)
Casing	• Metal
Mounting	• Desktop • Wall • 19'' rack

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Capacity

Switching Capacity	• 20 Gbps
Packet Forwarding Rate	• 14.88 Mpps
Transfer Mode	• Store-and-forward
MAC Address Table	• 8K entries
Packet Buffer	• 512 KB
Jumbo Frame	• 9 216 bytes

PoE

PoE Standard	• IEEE 802.3af • IEEE 802.3at
PoE Ports	• 1-8
Max. Power Consumption per Port	• 30 W
PoE Power Budget	• 120 W

PoE Distance	• 100 m
	  - Data rate – up to 1000 Mbps
	• 250 m[1]
	  - Data rate – up to 10 Mbps

Management and Monitoring	• PD Alive: Continuously monitors PoE-powered devices (PDs) and automatically restarts unresponsive devices

Software

L2 Features	• Flow Control
	• Port mirroring
	  - One-to-One
	  - Many-to-One
	  - Ingress, egress, both
	• Loopback Detection
	• Cable diagnostics

L2 Multicast	• IGMP Snooping
	  - IGMP v1/v2
	  - Supports up to 10 groups

VLAN	• 802.1Q tagged VLAN

[1]*Data and power transmission over distances of up to 250 m is possible with a switch port speed limited to 10 Mbps. The connected device should also support speeds of up to 10 Mbps.*

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QoS	• 802.1p
	• Supports up to 8 queues per port
	• DSCP
	• Queue handling
	- Strict Priority (SP)
	- Weighted Round Robin (WRR)
	• Port-based bandwidth control
Security	• Static MAC addresses
	• Storm Control
	• Traffic Segmentation
	• DHCP Snooping
Management	• Web-based UI

Physical Parameters

Dimensions (L x W x H)	• 220 x 150 x 44 mm

Operating Conditions

Power Input	• 100-240 V AC, 50/60 Hz
MTBF (hours)	• 50 000
Surge Protection	• ± 4 kV (common mode)
	• ± 2 kV (differential mode)
Electrostatic Discharge (ESD) Protection	• Contact discharge: ± 6 kV
	• Air discharge: ± 8 kV
Temperature	• Operating: 0 to 40 °C
	• Storage: -40 to 70 °C
Humidity	• Operating: 10% to 90% (non-condensing)
	• Storage: 5% to 90% (non-condensing)

Package Contents

Package Contents	• OS2410P Switch
	• Power Cord
	• Rack Mount Kit
	• Quick Installation Guide

Order Info

OS2410P/120W	Web Smart L2 PoE Switch, 8x1000Base-T PoE+, 2x1000Base-X SFP, PoE up to 250 m