



OI2206P

6-Port Gigabit Industrial Configurable Switch

4x10/100/1000Base-T PoE (802.3af/at), 2x100/1000Base-X SFP, 120W/60 W PoE budget, -40 to 75 °C, DIP switch, IP40-rated, Wall/DIN-rail mountable



The ORIGO OI2206P is an industrial switch with 4×1000Base-T PoE+ ports, 2×100/1000Base-X SFP ports, and a DIP switch, supporting wall or DIN-rail mounting.

The ORIGO OI2206P is available in two versions – with a PoE budget of 120 W and 60 W.

The ORIGO OI2206P switch is designed for building gigabit data transmission networks and supplying power to energy-intensive PoE devices at sites with increased requirements for operating conditions.

The ORIGO OI2206P switch supports IEEE 802.3af/at PoE standards, providing up to 30W for each port. VLAN Mode and CCTV Mode can be used to isolate PoE ports traffic and enhance the distance of both data transmission and power supply up to 250m. Operating modes are hardware-configurable via DIP switch.

The ORIGO OI2206P operates within a wide temperature range from -40°C to 75°C and supports connection of two independent DC power supplies with redundancy, for example OI75WPSU, OI120WPSU, or OI240WPSU. The switch is resistant to vibration and electrostatic discharges up to 8 kV. A rugged IP40-rated metal housing and reliable fanless design ensure stable operation in harsh industrial environments.

Key Features

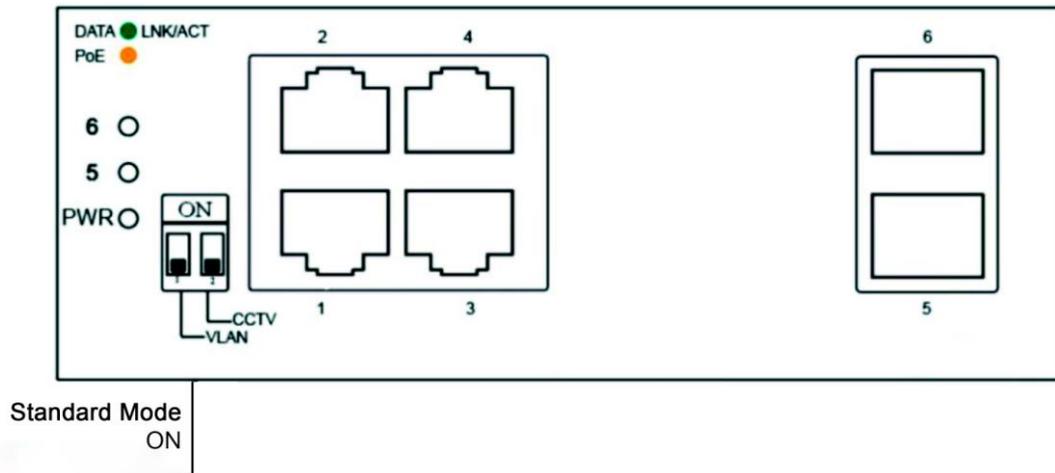
- 4x10/100/1000Base-T (802.3af/at PoE) ports
- 2x100/1000Base-X SFP ports
- 120W/60W PoE budget (model dependent)
- Dual power input for redundant power supplies (48-57V DC)
- Relay output for power failure alarm (dry contact)
- -40 to 75 °C operating temperature range
- ±4KV Surge Protection / ±8KV Electrostatic Standard
- CCTV Mode to enhance the distance of data transmission up to 250m
- VLAN Mode to improve network security
- Mode configuration via DIP switch
- No fans, stable performance, IP40-rated metal casing
- DIN rail mountable



DIP Switch Operating Modes

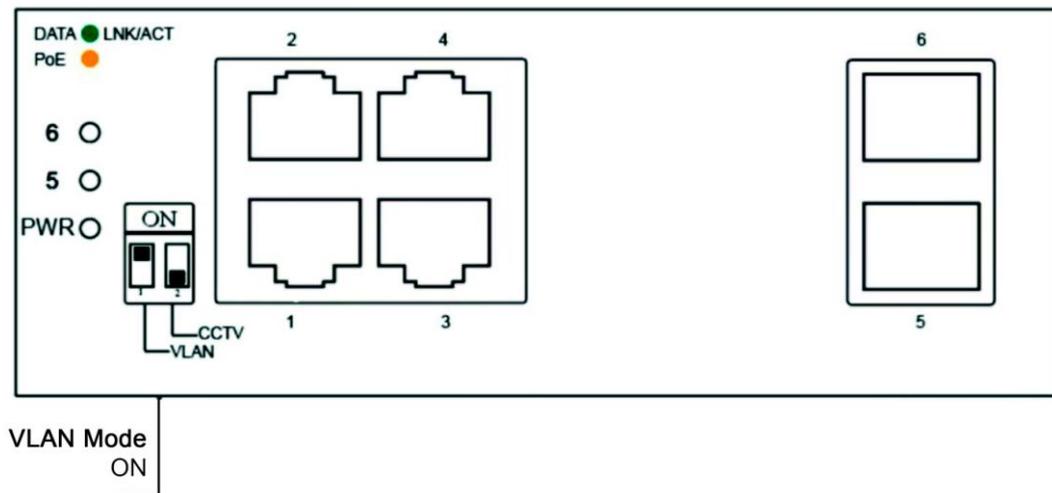
VLAN – OFF, CCTV – OFF

Traffic can be transmitted between each port of the switch, the ports acting like a common switch ports.



VLAN – ON, CCTV – OFF

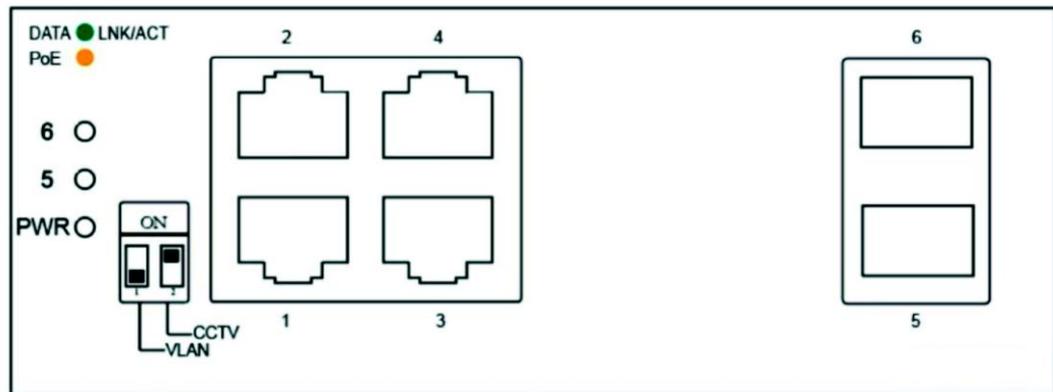
Traffic cannot be transmitted between ports 1-4, but each of these ports can exchange traffic with ports 5-6.





VLAN – OFF, CCTV – ON

Data transmission rate for ports 1-4 cannot exceed 10Mbps, while data and power supply transmission distance increased up to 250m. Traffic cannot be transmitted between ports 1-4, but each of these ports can exchange traffic with ports 5-6.

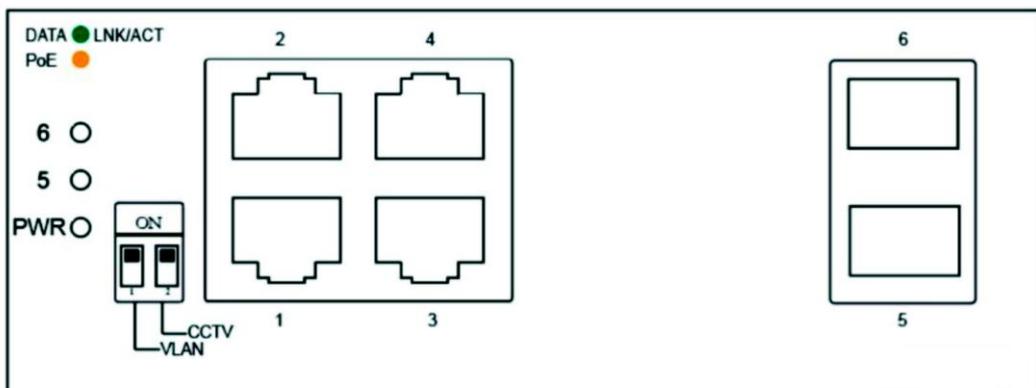


CCTV Mode
ON

250m | 10Mbps
Traffic Isolation for Ports 1-4

VLAN – ON, CCTV – ON

Data transmission rate for ports 1-4 cannot exceed 10Mbps, while data and power supply transmission distance increased up to 250m. Traffic can be transmitted between each port of the switch, the ports acting like a common switch ports.



VLAN Mode and
CCTV Mode
ON

250m | 10Mbps
Traffic Isolation OFF



Product Specifications

Hardware Specifications

CPU and Memory	<ul style="list-style-type: none">• CPU: RTL8370MBI• RAM: 128 MB• Flash: 32 MB
Interfaces	<ul style="list-style-type: none">• 4x10/100/1000Base-T PoE (RJ-45) ports• 2x1000Base-X SFP ports
Standards and Functions	<ul style="list-style-type: none">• IEEE 802.3 10Base-T• IEEE 802.3u 100Base-TX• IEEE 802.3ab 1000Base-T• IEEE 802.3u 100Base-FX• IEEE 802.3z 1000Base-X• IEEE 802.3af PoE• IEEE 802.3at PoE• IEEE 802.3x (Full Duplex Flow Control)• IEEE 802.3az Energy-Efficient Ethernet• Auto MDI/MDIX for RJ45 ports
LEDs	<ul style="list-style-type: none">• Power<ul style="list-style-type: none">- Always green – power on state- Off – power off state• Link/Act (port 1 – 6)<ul style="list-style-type: none">- Always green – terminal device is connected- Flickers green – data pass- Off – no connection• PoE (port 1 – 4)<ul style="list-style-type: none">- Always orange – PoE device is connected- Flickers orange – connection error- Off – PoE device is not connected
DIP Switches	<ul style="list-style-type: none">• Standard Mode (VLAN OFF, CCTV OFF)<ul style="list-style-type: none">- Data and power supply transmission distance: up to 100m- Data transmission rate: 10/100/1000Mbps• VLAN ON, CCTV OFF<ul style="list-style-type: none">- Traffic isolation for ports 1-4- Data and power transmission distance – up to 100 m- Data transmission rate – 10/100/1000 Mbps



	<ul style="list-style-type: none">• VLAN OFF, CCTV ON<ul style="list-style-type: none">- Data and power supply transmission distance: up to 250m- Data transmission rate: 10Mbps- Traffic isolation for ports 1-4• VLAN ON + CCTV ON<ul style="list-style-type: none">- Data and power supply transmission distance: up to 250m- Data transmission rate: 10Mbps- Traffic isolation off
Alarm Relay	<ul style="list-style-type: none">• 1 relay-controlled output (dry contact) to give warning of a power supply failure• Relay contact load capacity:<ul style="list-style-type: none">- 2A at 30V DC- 0.5A at 125V DC
Power	<ul style="list-style-type: none">• DC: terminal block to connect up to two independent power supplies (48 to 57V DC)
Ventilation System	<ul style="list-style-type: none">• Fanless
Casing	<ul style="list-style-type: none">• Metal• IP40-rated
Mounting	<ul style="list-style-type: none">• Wall• DIN-rail

Capacity

Switching Capacity	<ul style="list-style-type: none">• 12 Gbps
Packet Forwarding Rate	<ul style="list-style-type: none">• 8,93 Mpps
Transfer Mode	<ul style="list-style-type: none">• Store-and-forward
MAC Address Table	<ul style="list-style-type: none">• 4K
Packet Buffer	<ul style="list-style-type: none">• 1.5 MB
Jumbo Frame	<ul style="list-style-type: none">• 9 216 bytes

PoE

PoE Standard	<ul style="list-style-type: none">• IEEE 802.3af• IEEE 802.3at
PoE Ports	<ul style="list-style-type: none">• 1-4



Max. Power Consumption per Port	<ul style="list-style-type: none">• 30W
PoE Power Budget	<ul style="list-style-type: none">• 120W (OI2206P/120W)• 60W (OI2206P/60W)
PoE Mode	<ul style="list-style-type: none">• Type A
PoE Transmission Distance	<ul style="list-style-type: none">• Up to 100 m<ul style="list-style-type: none">- Data rate: up to 10/100/1000 Mbps• Up to 250 m<ul style="list-style-type: none">- Data rate: up to 10 Mbps

Physical Parameters

Dimensions (W × D × H)	<ul style="list-style-type: none">• 110 x 90 x 46 mm
Weight	<ul style="list-style-type: none">• 0.48 kg
Package Size	<ul style="list-style-type: none">• 23.4 x 19 x 8.6 cm
Gross Weight	<ul style="list-style-type: none">• 0.66 kg

Operating Conditions

Power Input	<ul style="list-style-type: none">• 48-57V DC
Current Consumption	<ul style="list-style-type: none">• OI2206P/120W<ul style="list-style-type: none">- 2,9 A (Max.)• OI2206P/60W<ul style="list-style-type: none">- 1.5 A (Max.)
Max. Input Power	<ul style="list-style-type: none">• OI2206P/120W<ul style="list-style-type: none">- 125,54 W (PoE on)- 5,19 W (PoE off)• OI2206P/60W<ul style="list-style-type: none">- 69 W (PoE on)- 5,19 W (PoE off)
Standby Input Power	<ul style="list-style-type: none">• 1.2W
MTBF (hours)	<ul style="list-style-type: none">• >100 000
Surge Protection	<ul style="list-style-type: none">• Common mode ±4KV• Differential mode ±2KV
Electrostatic Standard	<ul style="list-style-type: none">• Contact ±6KV• Air ±8KV



Temperature	<ul style="list-style-type: none">• Operating: -40 to 75 °C• Storage: -40 to 80 °C
Humidity	<ul style="list-style-type: none">• Operating: 5% to 95% non-condensing• Storage: 0% to 95% non-condensing

Package Contents

Package Contents	<ul style="list-style-type: none">• OI2206P Switch• Quick Installation Guide
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Optional Accessories

Power Supplies	<ul style="list-style-type: none">• OI240WPSU (for OI2206P/120W and OI2206P/60W)• OI120WPSU (for OI2206P/120W and OI2206P/60W)• OI75WPSU (for OI2206P/60W)
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Order info

OI2206P/120W	Industrial Configurable PoE Switch, 4×1000Base-T, 2×1000Base-X SFP, -40...75°C, PoE Power Budget: 120 W
OI2206P/60W	Industrial Configurable PoE Switch, 4×1000Base-T, 2×1000Base-X SFP, -40...75°C, PoE Power Budget: 60 W
OI240WPSU	DIN-Rail Power Supply 240 W, Output 48V DC <i>Compatible with OI2206P/120W and OI2206P/60W</i>
OI120WPSU	DIN-Rail Power Supply 120 W, Output 48V DC <i>Compatible with OI2206P/120W and OI2206P/60W</i>
OI75WPSU	DIN-Rail Power Supply 75 W, Output 48V DC <i>Compatible with OI2206P/60W</i>