



# OI2210P+/185W

## 10-Port Gigabit Industrial Configurable PoE Switch

8x10/100/1000Base-T PoE (802.3af/at/bt, up to 90W), 2x100/1000Base-X SFP, 185 W PoE Budget, DIP Switches, -40 to 75 °C Operating Temperature, IP40-rated, Wall/DIN-rail Mountable



The ORIGO OI2210P+/185W Industrial Configurable Switch is equipped with 8×Gigabit 802.3bt PoE++ ports, 2×100/1000Base-X SFP ports, and DIP switches.

The ORIGO OI2210P+/185W switch is designed for building Gigabit data transmission networks and powering high-power PoE equipment at sites with strict environmental requirements.

The OI2210P+/185W supports PoE (802.3af), PoE+ (802.3at), and PoE++ (802.3bt) standards, delivering up to 90 W per port with a total PoE power budget of 185 W. For video surveillance applications, the switch offers VLAN and CCTV modes to isolate traffic between ports and extend data and power transmission distance up to 250 m. Mode configuration is carried out via DIP switches.

The ORIGO OI2210P+/185W operates within a wide temperature range from –40 to +75 °C and supports the connection of two independent DC power supplies with redundancy capability, such as the [OI240WPSU](#). It is resistant to vibration and electrostatic discharges up to 8 kV. The rugged metal casing with IP40 protection and a reliable fanless ventilation system ensure stable operation in stringent industrial environments.

### Key Features

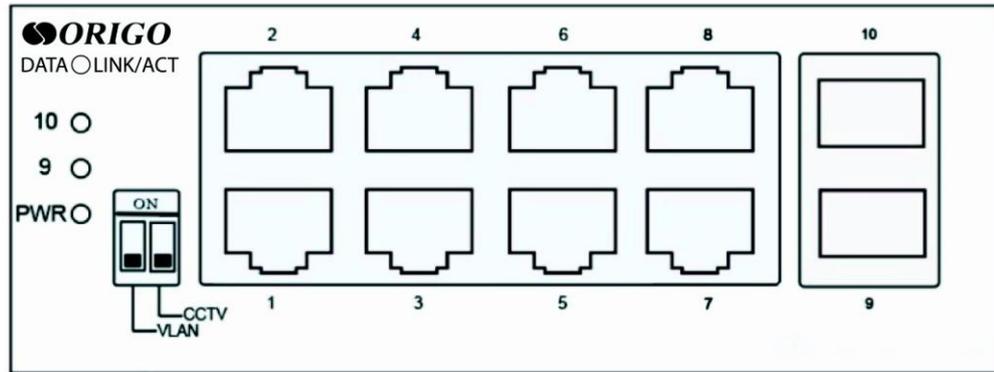
- 8×10/100/1000Base-T ports with 802.3af/at/bt PoE++ support
- 2×100/1000Base-X SFP ports
- Total PoE power budget: 185 W (90 W per port)
- Dual redundant 48-57 V DC power inputs
- Alarm relay output (dry contact)
- Operating temperature range: -40 to +75 °C
- Surge protection up to 6 kV; ESD protection up to 8 kV
- CCTV Mode to enhance the distance of data transmission up to 250m
- VLAN Mode to improve network security
- Mode configuration via DIP switches
- No fans, stable performance, IP40-rated metal casing
- DIN rail and wall mountable



## DIP Switch Operating Modes

### VLAN – OFF, CCTV – OFF

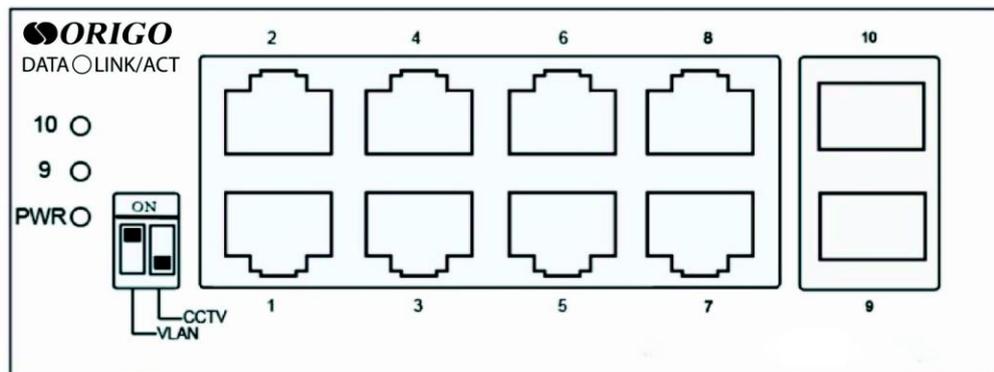
Traffic can be transmitted between each port of the switch, the ports acting like a common unmanaged switch ports.



Standard Mode  
ON

### VLAN – ON, CCTV – OFF

Traffic cannot be transmitted between ports 1-8, but each of these ports can exchange traffic with ports 9-10.

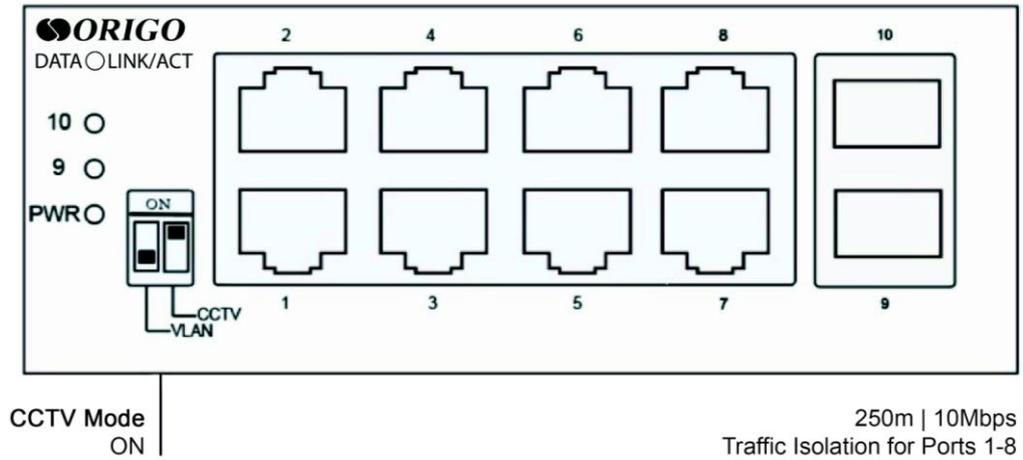


VLAN Mode  
ON



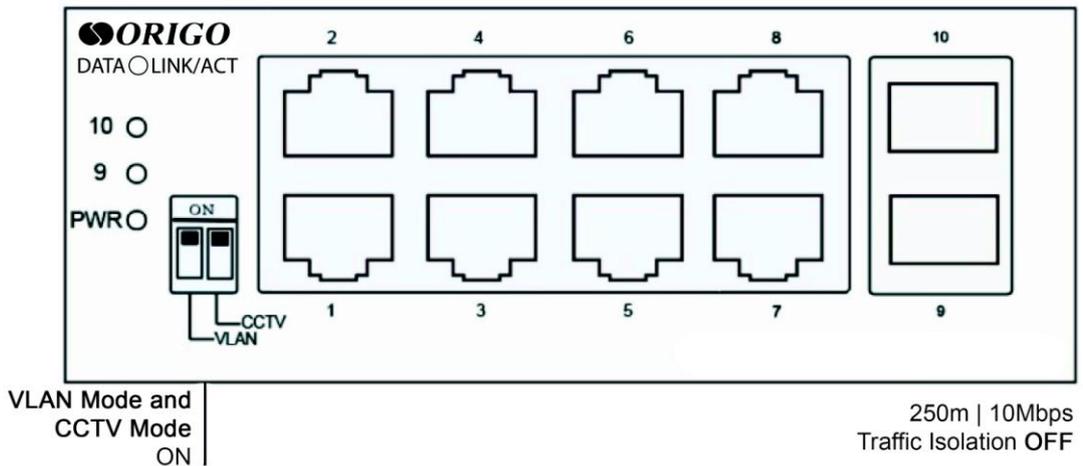
### VLAN – OFF, CCTV – ON

Data transmission rate for ports 1-8 cannot exceed 10Mbps, while data and power supply transmission distance increased up to 250m. Traffic cannot be transmitted between ports 1-8, but each of these ports can exchange traffic with ports 9-10.



### VLAN – ON, CCTV – ON

Data transmission rate for ports 1-8 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 unmanaged switch ports.





## Specifications

### Hardware

CPU and Memory	<ul style="list-style-type: none"><li>• CPU: RTL8370MBI</li><li>• RAM: 128 MB</li><li>• Flash: 32 MB</li></ul>
Interfaces	<ul style="list-style-type: none"><li>• 8x10/100/1000Base-T (RJ-45) ports with PoE support</li><li>• 2x100/1000Base-X SFP ports</li></ul>
Standards and Functions	<ul style="list-style-type: none"><li>• IEEE 802.3 10Base-T</li><li>• IEEE 802.3u 100Base-TX</li><li>• IEEE 802.3ab 1000Base-T</li><li>• IEEE 802.3z 1000Base-X</li><li>• IEEE 802.3af PoE</li><li>• IEEE 802.3at PoE+</li><li>• IEEE 802.3bt PoE++</li><li>• IEEE 802.3x Full Duplex Flow Control</li><li>• IEEE 802.3az Energy-Efficient Ethernet</li><li>• Auto MDI/MDIX on all copper ports</li></ul>
LEDs	<ul style="list-style-type: none"><li>• Power<ul style="list-style-type: none"><li>- On: Power on state</li><li>- Off: Power off state</li></ul></li><li>• Link/Act (Ports 1 – 10)<ul style="list-style-type: none"><li>- Always bright: terminal device is connected</li><li>- Blinking: Data transmission in progress</li><li>- Off: No connection</li></ul></li><li>• PoE (Ports 1 – 8)<ul style="list-style-type: none"><li>- On: PoE device is connected</li><li>- Off: No PoE device connected</li></ul></li></ul>
DIP Switches	<ul style="list-style-type: none"><li>• Standard Mode (VLAN OFF, CCTV OFF)<ul style="list-style-type: none"><li>- Data and power supply transmission distance: up to 100m</li><li>- Data transmission rate: 10/100/1000Mbps</li></ul></li><li>• VLAN ON<ul style="list-style-type: none"><li>- Traffic isolation for ports 1-8</li></ul></li><li>• CCTV ON<ul style="list-style-type: none"><li>- Data and power supply transmission distance: up to 250m</li><li>- Data transmission rate: 10Mbps</li><li>- Traffic isolation for ports 1-8</li></ul></li></ul>



	<ul style="list-style-type: none"><li>• VLAN ON + CCTV ON<ul style="list-style-type: none"><li>- Data and power supply transmission distance: up to 250m</li><li>- Data transmission rate: 10Mbps</li><li>- Traffic isolation off</li></ul></li></ul>
Alarm Relay	<ul style="list-style-type: none"><li>• One relay output (dry contact) for power failure notification</li><li>• Relay contact load capacity:<ul style="list-style-type: none"><li>- 2A at 30V DC</li><li>- 0,5A at 125V DC</li></ul></li></ul>
Power	<ul style="list-style-type: none"><li>• DC: terminal block for connection of up to two independent power sources (48 to 57 V DC)</li></ul>
Ventilation System	<ul style="list-style-type: none"><li>• Fanless</li></ul>
Casing	<ul style="list-style-type: none"><li>• Metal</li><li>• IP40-rated</li></ul>
Mounting	<ul style="list-style-type: none"><li>• Wall</li><li>• DIN-rail</li></ul>

## Capacity

Switching Capacity	<ul style="list-style-type: none"><li>• 20 Gbps</li></ul>
Packet Forwarding Rate	<ul style="list-style-type: none"><li>• 14.88 Mpps</li></ul>
Transfer Mode	<ul style="list-style-type: none"><li>• Store-and-forward</li></ul>
MAC Address Table Size	<ul style="list-style-type: none"><li>• 4K entries</li></ul>
Packet Buffer	<ul style="list-style-type: none"><li>• 192 KB</li></ul>
Jumbo Frame	<ul style="list-style-type: none"><li>• 9 216 bytes</li></ul>

## PoE

PoE Standard	<ul style="list-style-type: none"><li>• IEEE 802.3af</li><li>• IEEE 802.3at</li><li>• IEEE 802.3bt</li></ul>
PoE Ports	<ul style="list-style-type: none"><li>• Ports 1-8</li></ul>
Max. Power per Port:	<ul style="list-style-type: none"><li>• 90 W</li></ul>
PoE Power Budget	<ul style="list-style-type: none"><li>• 185 W</li></ul>
PoE Mode	<ul style="list-style-type: none"><li>• Type A</li><li>• Type B</li></ul>

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## Physical Parameters

Dimensions (W × D × H)	<ul style="list-style-type: none"><li>• 145 x 109 x 62 mm</li></ul>
Weight	<ul style="list-style-type: none"><li>• 0.92 kg</li></ul>
Package Dimensions	<ul style="list-style-type: none"><li>• 23.4 x 19 x 8.6 cm</li></ul>
Gross Weight	<ul style="list-style-type: none"><li>• 1.1 kg</li></ul>

## Operating Conditions

Power Input	<ul style="list-style-type: none"><li>• 48-57 V DC</li></ul>
Current Consumption	<ul style="list-style-type: none"><li>• 4.5 A (max.)</li></ul>
Maximum Power Consumption	<ul style="list-style-type: none"><li>• 5.19 W (PoE off)</li><li>• 187.68 W (PoE on)</li></ul>
Standby Power Consumption	<ul style="list-style-type: none"><li>• 1.77 W</li></ul>
MTBF (hours)	<ul style="list-style-type: none"><li>• &gt; 100 000</li></ul>
Surge Protection	<ul style="list-style-type: none"><li>• Up to 6 kV (common mode)</li><li>• Up to 2 kV (differential mode)</li></ul>
Electrostatic Discharge (ESD) Protection	<ul style="list-style-type: none"><li>• Contact discharge: up to 6 kV</li><li>• Air discharge: up to 8 kV</li></ul>
Temperature	<ul style="list-style-type: none"><li>• Operating: -40 to 75 °C</li><li>• Storage: -40 to 80 °C</li></ul>
Humidity	<ul style="list-style-type: none"><li>• Operating: 5% to 95% (non-condensing)</li><li>• Storage: 0% to 95% (non-condensing)</li></ul>

## Package Contents

Package Contents	<ul style="list-style-type: none"><li>• OI2210P+/185W Switch</li><li>• Quick Installation Guide</li></ul>
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## Optional Accessories

Power Supplies	<ul style="list-style-type: none"><li>• OI240WPSU</li></ul>
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**Order Info**

OI2210P+/185W	Industrial Unmanaged PoE Switch, 8 × 1000Base-T, 2 × 1000Base-X SFP, -40...75 °C
OI240WPSU	240W DIN-rail Power Supply, 48V DC output