



OS2224

24-Port Gigabit Configurable Switch

24x10/100/1000Base-T, DIP Switch, 19" rack mounting



OS2224 is a configurable switch with 24 x 10/100/1000Base-T ports.

The ORIGO OS2224 switch is a modern gigabit solution for connecting workgroups on enterprises, in offices, classrooms and medical facilities.

The OS2224 switch supports enhanced functions for configurable switch such as traffic control, ensuring network protection and smooth operation. All the functions can be activated with the DIP switch on the casing.

The Loop Detection / Loop Prevention support allows to monitor loops on ports and prevent switch overload.

VLAN Mode allows to provide traffic segmentation for connected devices and ensure security of transmitted data.

In Network Cloning Mode, traffic can be transmitted between all ports of the switch, while IEEE 802.3x Flow Control is disabled.

The modes are configured in hardware with the DIP switch.

The OS2224 switch also supports 802.1p QoS for priority transmission of time sensitive traffic, broadcast storm control and IGMP Snooping for improved operation with multicast applications.

Key Features

- 24 x 10/100/1000Base-T (RJ-45) ports with auto speed negotiation
- DIP switch for activating the operating modes
- Standard mode with Loop Detection / Loop Prevention support
- VLAN mode for isolating traffic between ports
- Network Cloning mode for disabling IEEE 802.3x flow control
- Configuring the operating modes with the DIP switch
- 802.1p QoS and IGMP Snooping support
- 802.3az Energy-Efficient Ethernet
- 19" rack mounting



DIP Switch Operating Modes



Standard Mode

The traffic can be transmitted between all ports of the switch.

Network Cloning Mode

The traffic can be transmitted between all ports of the switch, while IEEE 802.3x Flow Control is disabled.

VLAN Mode

The traffic cannot be transmitted between ports 1-22, but each of these ports can exchange traffic with ports 23 and 24.

Functions	Operating Modes		
	Standard	Network Cloning	VLAN
Loop Detection	On	Off	Off
Loop Prevention	On	Off	Off
Port Isolation	Off	Off	On
IGMP	On	On	On
Flow Control	On	Off	On
Storm Control	On	On	On
EEE	On	On	On



Specifications

Hardware

Chipset	<ul style="list-style-type: none">• EN8853D
Interfaces	<ul style="list-style-type: none">• 24 x 10/100/1000Base-T (RJ-45) 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 802.3x (Flow Control)• IEEE 802.3az Energy-Efficient Ethernet (EEE)• IEEE 802.1p (QoS)• IGMP Snooping• Auto MDI/MDIX adjustment
DIP Switch Operating Modes	<ul style="list-style-type: none">• Standard<ul style="list-style-type: none">- Transmitting traffic between all ports- Loop Detection/ Loop Prevention- IEEE 802.3x Flow Control- Broadcast Storm Control- IGMP- Energy Saving function (EEE)• Network Cloning<ul style="list-style-type: none">- IEEE 802.3x Flow Control is disabled on all ports- Broadcast Storm Control- IGMP- Energy Saving function (EEE)• VLAN<ul style="list-style-type: none">- Traffic isolation for ports 1-22- IEEE 802.3x Flow Control- Broadcast Storm Control- IGMP- Energy Saving function (EEE)
LEDs	<ul style="list-style-type: none">• Power<ul style="list-style-type: none">- Always bright red - Power on state- Off – Power off state• Link/Act (ports 1 – 24)<ul style="list-style-type: none">- Always bright green – Terminal device is connected- Blinking green - Data pass



	<ul style="list-style-type: none">- Off – No connection• Loop<ul style="list-style-type: none">- Blinking green - Loop is detected in the network- Off - Proper network operation
Power	<ul style="list-style-type: none">• Power connector (AC)
Ventilation System	<ul style="list-style-type: none">• Fanless
Casing	<ul style="list-style-type: none">• Metal
Mounting	<ul style="list-style-type: none">• Desktop• 19" rackmount

Performance

Switching Capacity	<ul style="list-style-type: none">• 48 Gbps
Transfer Mode	<ul style="list-style-type: none">• Store-and-forward
MAC Address Table Size	<ul style="list-style-type: none">• 8K entries
Packet Forwarding Rate	<ul style="list-style-type: none">• 35.7 Mpps
Packet Buffer	<ul style="list-style-type: none">• 512 KB
Jumbo Frame	<ul style="list-style-type: none">• 15 KB

Physical Parameters

Dimensions (W × D × H)	<ul style="list-style-type: none">• 290 x 185 x 44.5 mm
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Operating Conditions

Power Input	<ul style="list-style-type: none">• 100-240 V AC, 50/60 Hz
Power Consumption	<ul style="list-style-type: none">• 10.929 W
Temperature	<ul style="list-style-type: none">• Operating: 0 to 45 °C• Storage: -40 to 70 °C
Humidity	<ul style="list-style-type: none">• Operating: 10% to 90% (non-condensing)• Storage: 5% to 90% (non-condensing)



Package Contents

Package Contents	<ul style="list-style-type: none">• OS2224 Switch• Power Cord• 19" Rack-Mount Kit• Rubber Feet• Quick Installation Guide
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Order Info

OS2224	Configurable Switch, 24x1000Base-T
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