



FortiSwitch™ 224B-POE

Managed Gigabit Ethernet POE



Rightsize switch deployment

Fortinet's FortiSwitch family of Ethernet switches deliver outstanding price, performance, and scalability to organizations with diverse operational needs. The FortiSwitch platforms are purpose-built to meet the Ethernet infrastructure and provisioning needs of today's network edge. You can scale up/out your operations' performance needs with ease of use and low cost of ownership to meet the demands of bandwidth-intensive applications from small offices to large datacenters.

Cost-effective managed wire closet PoE switch

The FortiSwitch 224B-POE is designed for mid-size businesses, classrooms and distributed remote locations that want to benefit from converged networking with lowest TCO.

This switch offers a total of 24 usable ports: 20 10/100/1000 Mbps copper ports, and four copper 10/100/1000 ports shared with four hot-swappable Small Form-factor Pluggable (SFP) cages for optional fiber connectivity. This standards-based PoE Switch, provides power and data over the same Cat-5 UTP cable along with prioritization and SNMP making it ideal for deploying access points, VoIP phones and IP-based surveillance cameras. This high performing switch features a non-blocking wire-speed architecture with an 48 Gbps switching capacity for maximum data throughput.

This managed switch also provides capabilities for VLAN segmentation of your voice, video, data and wireless traffic. The FortiSwitch family is packaged in a compact 1RU form factor and designed to connect network devices to the Ethernet fabric, thereby reducing your overall deployment costs.

*High performance LAN edge
ideal for the converged
network application (voice,
video, data, wireless).*

- 24 POE ports
- 180 W POE power
- Line rate 48 Gbps capacity
- 8000 MAC address and 256 VLAN support
- 4 shared Gigabit SFP ports for Fiber uplink support
- Powers any device support standards based 802.3af
- Management with Standards based CLI syntax and web GUI
- Advanced QoS, Multicast and security features
- Limited Lifetime warranty



FortiCare

Worldwide 24x7 Support
support.fortinet.com

HARDWARE FEATURES

Power

- Internal power supply
 - Input voltage: 100-240V AC, 50-60Hz
 - Max power rating including PoE operations: 225W
 - PoE power budget: 180W

Physical Size

- 44cm(17.3in), 25.7cm(10.1), 4.4cm(1.7) LxWxH
- Mounts in an EIA-standard 19" rack

Weight

- Device only: 3.9 KG (8.65lbs)
- Total pkg: 6KG (13.2lbs)

Physical Ports

- Total number of ports 24
- 20 auto-MDI/MDIX, auto sensing 10/100/1000 Mbps, RJ-45 Ethernet access ports
- 4 dual personality ports support auto-MDI/MDIX, auto sensing 10/100/1000 Mbps, RJ-45 Ethernet access ports, or SFP slots for 1000 BASE-SX/LX transceiver modules.
- Ports 1-24 provide 802.3af @ 15.4W
- One DB-9 console port for local management
- MTBF > 10 years

LED Display

- Power/status/Port Speed/POE

Environmental Conditions

- Operating temperature: 32°F (0°C)–113°F (45°C)
- Storage temperature: -20–70°C
- Operating humidity: 10–90% non-condensing
- Storage humidity: 10–95% non-condensing

Certifications

- North America
- EU
- Japan
- Australia
- New Zealand
- Taiwan
- China
- Indonesia
- Philippines

SOFTWARE FEATURES

Switching features

- Total MAC addresses: 8000
- 802.1d Spanning Tree Protocol (STP)
- 802.1w Rapid Spanning Tree Protocol (RSTP)
- 802.1s Multiple Spanning Tree Protocol (MSTP)
- Static 802.3ad Link Aggregation
- 802.3ad LACP
- Port-based VLAN support
- Protocol-based VLAN support
- Per VLAN Tagging support
- Max number VLAN per Switch — 256
- GVRP
- Jumbo frame Support
- Broadcast Storm Control

QoS and ACL

- 802.1Q/802.1P based Layer 2 QoS
- DSCP-based Recognition
- DSCP-based Marking-Remarking
- Priority Marking
- Strict Priority Queuing
- Shaping Granularity (Kbps) 64Kbps
- Layer 2 multicast forwarding and filtering
- L2-L4 Policing (Metering)
- Protocol type filter
- L3 DiffServ
- DSCP/TOS based priority
- L2 Multicast forwarding and filtering
- IGMP v1/v2 Snooping
- Multicast Groups — 256
- Traffic Shaping and policing

Management and Operations

- Web-based GUI
 - Device Configuration
- CLI (Command Line Interface)
- Telnet Client
- TFTP client
- SNMP
- SYSLOG
- SNMP v1/v2/v3
- MIB I/II
- RMON v1, v2
- DHCP client
- Port mirroring (N:N Mirroring Support)
- Broadcast & Multicast rate limiting per port
- SSH v2 support
- HTTPS (SSL based browser support)
- 802.1ab Standard based Auto topology (LLDP)
- Configuration backup/restore
- Firmware backup/restore/upgrade via TFTP and HTTP

Security

- RADIUS
 - Authentication
 - Authorization
 - Accounting
- TACACS+
 - Authentication
 - Authorization
 - Accounting
- 802.1X Extensible Authentication (EAP) - (SHSA)
- 802.1X Multiple Host Multiple Authentication
- MAC limitation per port
- DHCP Snooping
- Dynamic ARP Inspection
- MAC based authentication

Statistics and MIBS

- MIBII, BridgeMIB, EtherlikeMIB, P-BridgeMIB, Q-BridgeMIB, InterfaceMIB, RMON Group 1, 2, 3, 9

The screenshot shows the FortiSwitch 224B POE web interface. The main navigation tabs include System, Switching, QoS, Security, Monitoring, and Maintenance. Under the Switching tab, there are sub-tabs for VLAN, STP, Multicast, Address Table, Ports, and LAG. The 'Port Configuration' window is open, displaying a table of port settings. The table has columns for Port, Link Status, Admin Mode, Port Type, LACP Mode, Physical Mode, Physical Status, and Flow Control Mode. The table lists ports Gi0/1 through Gi0/14 with their respective configurations.

| Port | Link Status | Admin Mode | Port Type | LACP Mode | Physical Mode | Physical Status | Flow Control Mode |
|--------|-------------|------------|--------------|-----------|---------------|--------------------|-------------------|
| Gi0/1 | Link Up | Enable | Trunk Member | Enable | Auto | 1 Gbps Full Duplex | Disable |
| Gi0/2 | Link Up | Enable | Trunk Member | Enable | Auto | 1 Gbps Full Duplex | Disable |
| Gi0/3 | Link Up | Enable | Normal | Enable | Auto | 1 Gbps Full Duplex | Disable |
| Gi0/4 | Link Up | Enable | Normal | Enable | Auto | 1 Gbps Full Duplex | Disable |
| Gi0/5 | Link Down | Enable | Normal | Enable | Auto | Unknown | Disable |
| Gi0/6 | Link Down | Enable | Normal | Enable | Auto | Unknown | Disable |
| Gi0/7 | Link Down | Enable | Normal | Enable | Auto | Unknown | Disable |
| Gi0/8 | Link Down | Enable | Normal | Enable | Auto | Unknown | Disable |
| Gi0/9 | Link Down | Enable | Normal | Enable | Auto | Unknown | Disable |
| Gi0/10 | Link Down | Enable | Normal | Enable | Auto | Unknown | Disable |
| Gi0/11 | Link Up | Enable | Normal | Enable | Auto | 1 Gbps Full Duplex | Disable |
| Gi0/12 | Link Up | Enable | Normal | Enable | Auto | 1 Gbps Full Duplex | Disable |
| Gi0/13 | Link Up | Enable | Normal | Enable | Auto | 1 Gbps Full Duplex | Disable |
| Gi0/14 | Link Up | Enable | Normal | Enable | Auto | 1 Gbps Full Duplex | Disable |

ORDER INFORMATION

| SKU | Description |
|-------------|---|
| FS-224B-POE | 24 port Ethernet PoE Switch with 24 10/100 Copper ports, 2 Gigabit Ethernet ports shared with 4 SFP cages. PoE power can be supplied all 24 ports with 802.3af compatibility. Ideal for VoIP and Wireless AP applications for classrooms, offices and distributed retail as wire closet Ethernet edge switch. |



GLOBAL HEADQUARTERS

Fortinet Inc.
1090 Kifer Road
Sunnyvale, CA 94086
United States
Tel: +1.408.235.7700
Fax: +1.408.235.7737

EMEA SALES OFFICE

120 rue Albert Caquot
06560, Sophia Antipolis,
France
Tel: +33.4.8987.0510
Fax: +33.4.8987.0501

APAC SALES OFFICE

300 Beach Road #20-01
The Concourse
Singapore 199555
Tel: +65.6513.3730
Fax: +65.6223.6784

LATIN AMERICA SALES OFFICE

Prol. Paseo de la Reforma 115 Int. 702
Col. Lomas de Santa Fe,
C.P. 01219
Del. Alvaro Obregón
México D.F.
Tel: 011-52-(55) 5524-8480