F:BTINET.



FortiSwitch[™]-28C, 108D-POE, 224D-POE, 324B-POE and 348B

Secure Access Switches

FortiSwitch Secure Access switches deliver outstanding security, performance and manageability for threat conscious small to mid-sized businesses, distributed enterprises and branch offices. Tightly integrated into the FortiGate® Network Security Platform, the FortiSwitch Secure Access switches can be managed directly from the familiar FortiGate interface. This single pane of glass management provides complete visibility and control of all users and devices on the network, regardless of how they connect.

When a device connects to a Secure Access Switch Ethernet port, it is first identified, and then the user is authenticated. Once authenticated, access to the network is granted based on pre-defined security policy from the FortiGate, ensuring secure network access across the enterprise, without impacting the user experience. When the enterprise network edge is further extended using Fortinet's range of FortiAP[™] Secure Wireless LAN Access Points, a consistent network access policy is enforced across both the wired and wireless LAN, providing a true Unified Access Layer.

Secure Managed Switches for Wire Closet Installation

The FortiSwitch-224D-POE, FortiSwitch-324B-POE and FortiSwitch-348B switches are ideal for the next generation applications, where increased productivity can be achieved through faster network access speeds via dedicated Gigabit Ethernet ports. With a compact 1RU form factor, these switches are ideally suited for high density enterprise or classroom wire closet installations, delivering a truly secure network access platform for wired Ethernet devices.

Desktop Form Factor Options

The FortiSwitch-28C and FortiSwitch-108D-POE are a desktop form factor, ideal for extending the Ethernet port count of desktop FortiGate models, or to provide secure network access for users in distributed enterprise and branch office locations.

Simple Network Deployment and Compliance

The Power over Ethernet (PoE) capability enables simple installation of wireless Access Points and IP phones in the network, with power and data being delivered over the same network cable. There is no need to contract electricians to install power for your PoE capable devices anymore, reducing your overall network TCO.

By leveraging the FortiSwitch VLAN segmentation feature of the switches, enterprise networks can support the convergence of voice, data and wireless traffic onto a single network platform. FortiSwitch network segmentation can even be managed from the FortiGate interface, simplifying the process of meeting compliance requirements for data separation.









Highlights

- Secure Access switches suitable for wire closet and desktop installations.
- Devices are identified and users authenticated prior to being granted access to the network.
- Centralized security management and reporting from FortiGate interface.
- Up to 48 ports in a compact 1RU form factor.
- Power over Ethernet capable, including PoE+.
- Ideal for converged network environments; enabling voice, data and wireless traffic to be delivered across a single network.

Key Features & Benefits

Single Management Framework	Reduces complexity and decreases management cost with network security functions managed through a single console.
Single Policy Provisioning	The same security policy can apply to a user or device regardless of how or where they connect to the network.
Centralized Authentication	All users are authenticated against the same user database, regardless of whether they connect to the wired or wireless network, including temporary guest users.
Role-Based Ports	Enables access to certain network ports based on the role of a user within the organization, such as in shared conference rooms or engineering facilities.

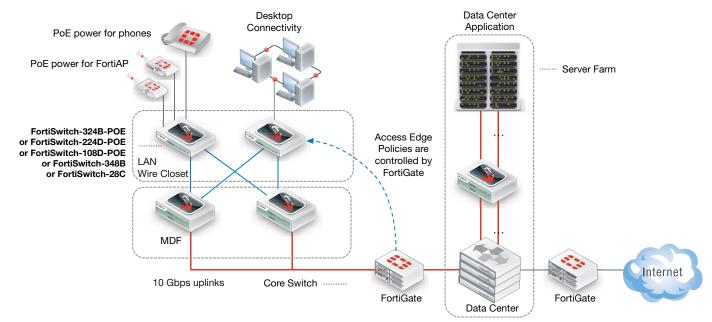
SOFTWARE FEATURES (FORTILINK MODE)

The following capabilities are enabled when FortiGate wireless and wired controller is managing the FortiSwitch devices.

	FORTISWITCH-28C	FORTISWITCH-108D-POE*	FORTISWITCH-224D-POE*	FORTISWITCH-324B-POE	FORTISWITCH-348B
Security					
802.1x port authentication and Captive Portal web authentication to identify guests and employees and provide segmentation.	Yes	Yes	Yes	Yes	Yes
Role Based Access Control	Yes	Yes	Yes	Yes	Yes
MAC black/white listing	Yes	Yes	Yes	Yes	Yes
Layer 3, 4 Stateful firewall to control user access to network	Yes	Yes	Yes	Yes	Yes
Routing					
Layer-3 Routing, OSPF, BGP	Yes	Yes	Yes	Yes	Yes
Inter-VLAN routing	Yes	Yes	Yes	Yes	Yes
Visualization					
Identifies which user and device is connected to which port	Yes	Yes	Yes	Yes	Yes
Identifies application usage and policy violations	Yes	Yes	Yes	Yes	Yes
Front panel switch display on FortiOS GUI	Yes	Yes	Yes	Yes	Yes
Management					
Centralized management of several switches from FortiGate	Yes	Yes	Yes	Yes	Yes
Centralized Software Upgrade	Yes	Yes	Yes	Yes	Yes
Centralized VLAN configuration	Yes	Yes	Yes	Yes	Yes
Centralized Authentication	Yes	Yes	Yes	Yes	Yes
Centralized policy control of users and devices	Yes	Yes	Yes	Yes	Yes

*Note: Check release notes for software feature availability

FortiSwitch 28C/108D-POE/224D-POE/324B-POE/348B Deployment Example



SOFTWARE FEATURES (STANDALONE MODE)

	FORTISWITCH-28C	FORTISWITCH-108D-POE*	FORTISWITCH-224D-POE*	FORTISWITCH-324B-POE	FORTISWITCH-348B
Layer 2					
Jumbo Frames	Yes	Yes	Yes	Yes	Yes
Auto-negotiation for port speed and duplex	Yes	Yes	Yes	Yes	Yes
IEEE 802.1D MAC Bridging/STP	Yes	Yes	Yes	Yes	Yes
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)	Yes	Yes	Yes	Yes	Yes
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	Yes	Yes	Yes	Yes	Yes
IEEE 802.1p Mapping to Priority Queue	Yes	Yes	Yes	Yes	Yes
Edge Port / Port Fast	Yes	Yes	Yes	Yes	Yes
IEEE 802.1Q VLAN Tagging	Yes	Yes	Yes	Yes	Yes
Private VLAN	No	Yes	Yes	Yes	Yes
IEEE 802.3ad Link Aggregation with LACP	Yes	Yes	Yes	Yes	Yes
Unicast/Multicast traffic balance over trunking port	Yes (MAC only)	Yes	Yes	Yes	Yes
(dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac)					
IEEE 802.1AX Link Aggregation	Yes	Yes	Yes	Yes	Yes
IEEE 802.3x Flow Control and back-pressure	Yes	Yes	Yes	Yes	Yes
IEEE 802.3 10Base-T	Yes	Yes	Yes	Yes	Yes
IEEE 802.3u 100Base-TX	Yes	Yes	Yes	Yes	Yes
IEEE 802.3z 1000Base-SX/LX	Yes	Yes	Yes	Yes	Yes
IEEE 802.3ab 1000Base-T	Yes	Yes	Yes	Yes	Yes
802.3 CSMA/CD Access Method and Physical Layer Specifications	Yes	Yes	Yes	Yes	Yes
IEEE 802.3af-2003/2009 POE		Yes	Yes	Yes	
Layer 3					
Static Routing	Yes	Yes	Yes	Yes	Yes
Security					
Port Mirroring	Yes	Yes	Yes	Yes	Yes
Admin Authentication Via RFC 2865 RADIUS	Yes	Yes	Yes	Yes	Yes
Supports Fortified Access (FortiLink) mode	Yes	Yes	Yes	Yes	Yes
802.1X authentication with auto VLAN assignment	Yes	Yes	Yes	Yes	Yes
Management					
Telnet / SSH	Yes	Yes	Yes	Yes	Yes
HTTP / HTTPS	Yes	Yes	Yes	Yes	Yes
SNMP v1/v2c/v3	Yes	Yes	Yes	Yes	Yes
SNTP	Yes	Yes	Yes	Yes	Yes
LLDP (802.1ab, Link Layer Discovery Protocol) (receive only)	Yes	Yes	Yes	Yes	Yes
Standard CLI and web GUI interface	Yes	Yes	Yes	Yes	Yes
Software download/upload: TFTP/FTP/GUI	Yes	Yes	Yes	Yes	Yes
RFC and MIB Support					
RFC 2571 Architecture for Describing SNMP Framework	Yes	Yes	Yes	Yes	Yes
RFC 2131 DHCP	Yes	Yes	Yes	Yes	Yes
RFC 854 Telnet Server	Yes	Yes	Yes	Yes	Yes
RFC 2865 RADIUS	Yes	Yes	Yes	Yes	Yes
RFC 1643 Ethernet-like Interface MIB	Yes	Yes	Yes	Yes	Yes
RFC 3176 sFlow	Yes	Yes	Yes	Yes	Yes
RFC 1213 MIB-II	Yes	Yes	Yes	Yes	Yes
RFC 1354 IP Forwarding Table MIB	Yes	Yes	Yes	Yes	Yes
RFC 2572 SNMP Message Processing and Dispatching	Yes	Yes	Yes	Yes	Yes
RFC 1573 SNMP MIB II	Yes	Yes	Yes	Yes	Yes
RFC 1157 SNMPv1/v2c	Yes	Yes	Yes	Yes	Yes
RFC 2030 SNTP	Yes	Yes	Yes	Yes	Yes

*Note: Check release notes for software feature availability





FortiSwitch-324B-POE

FortiSwitch-348B

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SPECIFICATIONS

	FORTISWITCH-28C	FORTISWITCH-108D-POE	FORTISWITCH-224D-POE	FORTISWITCH-324B-POE	FORTISWITCH-348B
Hardware Specifications					
Total Network Interfaces	8x GE RJ45 LAN ports and 2x GE RJ45 WAN ports	8x GE RJ45 ports and 2x GE RJ45/SFP combo ports	20x GE RJ45 ports and 4x GE RJ45/SFP combo ports	20x GE RJ45 ports and 4x GE RJ45/SFP combo ports	48x GE RJ45 ports and 2x GE RJ45/SFP combo ports
Dedicated Management 10/100/1000 Ports	-	-	-	1	-
Power over Ethernet (PoE) Ports	-	8	12	24 (includes 4 PoE+ ports)	-
PoE Power Budget	-	75 W	180 W (802.11af)	185 W	-
System Specifications					
Switch Type	Managed	Managed	Managed	Managed	Managed
Switching Capacity	16 Gbps	20 Gbps	48 Gbps	48 Gbps	96 Gbps
VLANs Supported	512 configurable from range of 4096 with support for VTP v1/v2	512 configurable from range of 4096 with support for VTP v1/v2	512 configurable from range of 4096 with support for VTP v1/v2	512 configurable from range of 4096 with support for VTP v1/v2	512 configurable from range of 4096 with support for VTP v1/v2
Total Link Aggregation Groups	up to 2 ports	up to 8 ports			
MAC Address Storage	2,000	16,000	16,000	16,000	16,000
Dimensions					
Height x Width x Length (in)	1.4 x 8.4 x 7.1	1.7 x 7.9 x 13	1.7 x 17.3 x 10.1	1.7 x 17.2 x 12.2	1.7 x 17.3 x 10.3
Height x Width x Length (mm)	35 x 214 x 180	44 x 200 x 330	44 x 440 x 257	44 x 438 x 311	44 x 440 x 262
Weight	1.1 lbs (0.5 kg)	4.19 lbs (1.9 kg)	8.49 lbs (3.85 kg)	10.15 lbs (4.6 kg)	8.8 lbs (4.0 kg)
Environment					
Power Required	100–240 VAC, 50–60 Hz (external DC power adaptor)	100–240 VAC, 50–60 Hz			
Power Consumption (AVG)	12 W	52.8 W	190 W	263 W	56.1 W
Power Consumption (MAX)	15 W	95.1 W	225 W	310 W	67.3 W
Heat Dissipation	45.0 BTU/h	324.32 BTU/h	767.7 BTU/h	1058 BTU/h	230 BTU/h
Operating Temperature	32–104°F (0–40°C)	32–113°F (0–45°C)	32–104°F (0–40°C)	32–104°F (0–40°C)	32–104°F (0–40°C)
Storage Temperature	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)	-4–158°F (-20–70°C)	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)
Humidity	20 to 90% non-condensing	5 to 90% non-condensing	10 to 90% non-condensing	5 to 95% non-condensing	20 to 90% non-condensing
Certification and Compliance					
	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB, RoHs	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/CUL, CB, RoHs	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/CUL, CB, RoHs	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/CUL, CB, RoHs	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB, RoHs

ORDER INFORMATION

Product	SKU	Description
FortiSwitch-28C	FS-28C	L2 PoE Switch —10x GE RJ45 ports (including 2x WAN ports, 8x switch ports).
FortiSwitch-108D-POE	FS-108D-POE	L2 PoE Switch — 8x GE RJ45 ports (including 8x PoE+ ports with 75 W power budget), 2x shared media pairs (including 2x GE RJ45, 2x GE SFP slots).
FortiSwitch-224D-POE	FS-224D-POE	L2 PoE Switch — 20x GE RJ45 ports (including 12x PoE ports with 185 W power budget), 4x shared media pairs (including 4x GE RJ45, 4x GE SFP slots).
FortiSwitch-324B-POE	FS-324B-POE	L2 PoE Switch — 20x GE RJ45 ports (including 16x PoE, 4x GE PoE+, 4x shared media pairs (including 4x GE RJ45, 4x GE SFP slots).
FortiSwitch-348B	FS-348B	L2 Switch — 48x GE RJ45 ports, 2x shared media pairs (including 4x GE RJ45, 4x GE SFP slots), FortiGate Switch controller compatitble.



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