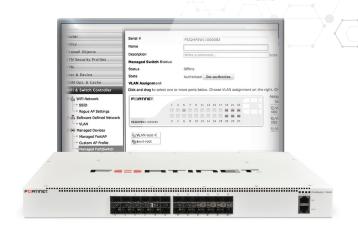


# FortiSwitch™ Data Center Series

FortiSwitch Data Center switches deliver outstanding throughput, resiliency and scalability for organizations with high performance network requirements. They are ideal for Top of Rack server or firewall aggregation applications, as well as enterprise network core or edge deployments, where high performance 10 GE or 40 GE is required. Purpose-built to meet the needs of today's bandwidth intensive data centers and enterprise networks,



FortiSwitch Data Center switches deliver high-performance with a low Total Cost of Ownership.



### **Security Fabric Integration**

Reduces complexity and decreases management cost with network security functions managed through a single console via FortiGate.

This integration allows all users to be authenticated against the same user database, regardless of whether they connect to the wired or wireless network, including temporary guest users.

In addition, same security policy can apply to a user or device regardless of how or where they connect to the network.



# **Designed for Data Centers**

Future-proofed 10 GE to satisfy the bandwidth requirements of intensive data center and network core applications and maximizes network availability with dual power supplies.

#### **Product Offerings**

FortiSwitch 1024D, 1048D and 3032D

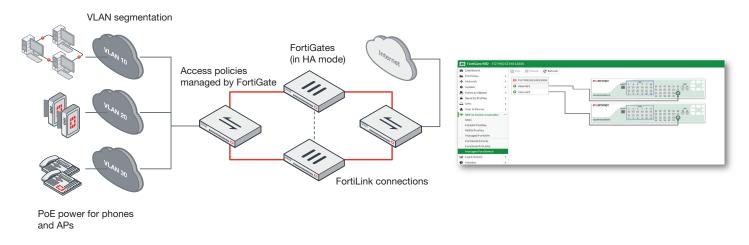


- High capacity switch suitable for Top of Rack or enterprise network deployments
- Maximum availability through dual hot swappable power supplies
- Simply management via a web-based or command line interface
- Switch security features protect vulnerable infrastructure without adding latency
- 1 GE or 10 GE access ports, in a compact 1 RU form factor
- 40 GE capability option

#### DEPLOYMENT

#### FortiLink Mode

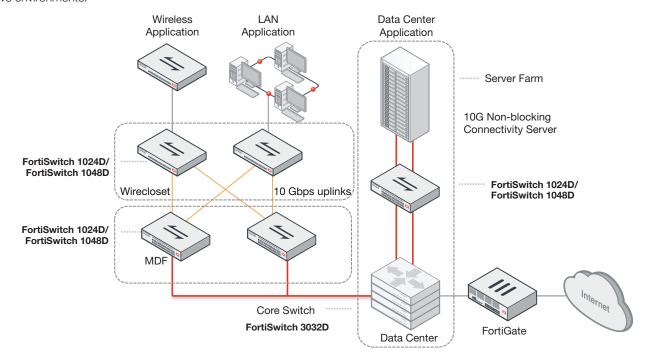
The FortiSwitch Secure Access Switch series integrates directly into the FortiGate\* Connected UTM, with switch administration and access port security managed from the familiar FortiGate interface. Regardless of how users and devices connect to the network, you have complete visibility and control over your network security and access through this single pane of glass, perfectly suited to threatconscious organizations of any size.



<sup>\*</sup> Selected models only

#### Standalone Mode

Virtualization and cloud computing have created dense high-bandwidth Ethernet networking requirements in the data center, pushing the limits of existing data center switching. FortiSwitch Data Center switches meet these challenges by providing a high performance 10 or 40 GE capable switching platform, with a low Total Cost of Ownership. Ideal for Top of Rack server or firewall aggregation applications, as well as enterprise network core or distribution deployments, these switches are purpose-built to meet the needs of today's bandwidth intensive environments.



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#### **HARDWARE**



FortiSwitch 1024D - front



FortiSwitch 1024D - back



FortiSwitch 1048D - front



FortiSwitch 1048D - back



FortiSwitch 3032D - front



FortiSwitch 3032D - back

# **FEATURES**

	FS-1024D, FS-1	FS-1024D, FS-1048D AND FS-3032D	
	STANDALONE SWITCH	FORTILINK MODE (FORTIGATE)	
Security			
802.1x Port Authentication	Yes	Yes	
MAC Address-Based Authentication	No	Yes	
MAC Black/White Listing	No	Yes	
Layer 3,4 Stateful Firewall to Control Access	No	Yes	
TACACS+/RADIUS Admin Access	Yes	Yes	
DHCP Relay/DHCP Snooping	No	Yes	
Virtual Domain	No	Yes	
Routing			
Layer 3, Dynamic Routing	No	Yes	
Inter-VLAN Routing	Yes	Yes	
Policy-Based Routing	No	Yes	
DNS Server	No	Yes	
VLANs Supported	4K	1K	
Management			
Auto Discovery of Multiple Switches	1	16 (model dependent)	
Software Upgrade of Switches	1 switch	Central upgrade of each switch	
VLAN Configuration	1 switch	Central VLAN provisioning of entire switch network	
Policy Control of Users and Devices	No	Yes	
Syslog Collection	Yes	Yes (FortiGate syslog only)	
Switch POE Control	Yes	Yes**	
LAG support from FortiSwitch to FortiGate	Yes	Yes**	
High Availability			
Support for FortiGate in HA cluster	Yes	Yes**	
UTM Features			
Firewall	No	Yes	
IPS, AV, Application Control	No	Yes	

<sup>\*\*</sup> Roadmap

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# **SPECIFICATIONS**

	FORTISWITCH 1024D	FORTISWITCH 1048D	FORTISWITCH 3032D
Layer 2	TONTISWITCH 10240	TONTISWITCH 1040D	TONTISWITCH 3032D
Jumbo Frames	Yes	Yes	Yes
	Yes	Yes	Yes
IEEE 802.1D MAC Bridging/STP (compatibility mode)  IEEE 802.1w Rapid Spanning Tree Protocol (RSTP, compatibility mode)			
	Yes	Yes	Yes
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	Yes	Yes	Yes
IEEE 802.1p Mapping to Priority Queue	Yes	Yes	Yes
Spanning Tree Instances (MSTP/CST)	15/1	15/1	15/1
IEEE 802.1Q VLAN Tagging	Yes	Yes	Yes
IEEE 802.3ad Link Aggregation with LACP	Yes	Yes	Yes
Unicast/Multicast traffic balance over trunking port (dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac)	Yes	Yes	Yes
IEEE 802.1AX Link Aggregation	Yes	Yes	Yes
IEEE 802.3x Flow Control and back-pressure	Yes	Yes	Yes
IEEE 802.3u 100Base-TX	No	No	No
IEEE 802.3z 1000Base-SX/LX	Yes	Yes	Yes
IEEE 802.3ab 1000Base-T	Yes	Yes	No Voc
802.3ae 10 Gigabit Ethernet	Yes	Yes	Yes
802.3 CSMA/CD Access Method and Physical Layer Specifications	Yes	Yes	Yes
Storm Control	Yes	Yes	Yes
MAC, IP, Ethertype-based VLANS	Yes	Yes	Yes
Virtual-Wire	Yes	Yes	Yes
Private VLAN	Yes	Yes	Yes
Layer 3			
Static Routing (Hardware-based)	Yes	Yes	Yes
Number of Direct Attached Hosts	ipv4=16K, ipv6=8K	ipv4=16K, ipv6=8K	ipv4=16K, ipv6=8K
Dynamic Routing	No	No	No
L3 Host/ARP Entries	16K	16K	16K
Services			
IGMP Snooping (v1/v2/v3)	Ple	ase refer to the Release Notes.	
Security			
Port Mirroring	Von		
roit will offing		Voo	Voo
Admin Authoritication Via DEC 2865 DADILIC	Yes	Yes	Yes
Admin Authentication Via RFC 2865 RADIUS	Yes	Yes	Yes
sFlow	Yes Yes	Yes Yes	Yes Yes
sFlow ACL Tables	Yes Yes Yes, 2K entries	Yes Yes Yes, 2K entries	Yes Yes Yes, 2K entries
sFlow ACL Tables 802.1x Authentication (Port and Mac-based)	Yes Yes Yes, 2K entries Yes	Yes Yes Yes, 2K entries Yes	Yes Yes Yes, 2K entries Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding	Yes Yes Yes, 2K entries	Yes Yes Yes, 2K entries	Yes Yes Yes, 2K entries
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management	Yes Yes Yes, 2K entries Yes	Yes Yes Yes, 2K entries Yes	Yes Yes Yes, 2K entries Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding	Yes Yes Yes, 2K entries Yes	Yes Yes Yes, 2K entries Yes	Yes Yes Yes, 2K entries Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management	Yes Yes Yes, 2K entries Yes Yes	Yes Yes Yes, 2K entries Yes Yes	Yes Yes Yes, 2K entries Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH	Yes Yes Yes, 2K entries Yes Yes Yes Yes	Yes Yes Yes, 2K entries Yes Yes Yes Yes	Yes Yes Yes, 2K entries Yes Yes Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3	Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes	Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface	Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes, 2K entries Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS RFC 1643 Ethernet-like Interface MIB	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes  Yes  Yes  Yes  Yes  Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS RFC 1643 Ethernet-like Interface MIB RFC 3176 sFlow	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS RFC 1643 Ethernet-like Interface MIB RFC 3176 sFlow RFC 2131 MIB-II	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding  Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS RFC 1643 Ethernet-like Interface MIB RFC 3176 sFlow RFC 1213 MIB-II RFC 1354 IP Forwarding Table MIB	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS RFC 3176 sFlow RFC 1213 MIB-II RFC 1354 IP Forwarding Table MIB RFC 2572 SNMP Message Processing and Dispatching	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS RFC 13176 sFlow RFC 1354 IP Forwarding Table MIB RFC 1354 IP Forwarding Table MIB RFC 2572 SNMP Message Processing and Dispatching RFC 1573 SNMP MIB II	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS RFC 1643 Ethernet-like Interface MIB RFC 3176 sFlow RFC 1213 MIB-II RFC 1354 IP Forwarding Table MIB RFC 2572 SNMP Message Processing and Dispatching RFC 1573 SNMP MIB II RFC 1157 SNMPV1/v2c*	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes
sFlow ACL Tables 802.1x Authentication (Port and Mac-based) MAC-IP Binding Management Telnet / SSH SNMP v1/v2c/v3 CLI and Web GUI Interface Managed from FortiGate Support for HTTP REST APIs for Configuration and Monitoring RFC and MIB Support RFC 2571 Architecture for Describing SNMP Framework RFC 2131 DHCP RFC 854 TELNET Server RFC 2865 RADIUS RFC 1643 Ethernet-like Interface MIB RFC 3176 sFlow RFC 1213 MIB-II RFC 1354 IP Forwarding Table MIB RFC 2572 SNMP Message Processing and Dispatching RFC 1573 SNMP MIB II	Yes Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y	Yes Yes Yes, 2K entries Yes Yes Yes Yes Yes Yes Yes Yes Yes Y

 $<sup>{}^{\</sup>star}\text{Tested with Solarwinds NPM tool. Please refer to FortiSwitch Admin Guide for details on setup.}$ 

# **SPECIFICATIONS**

	FORTISWITCH 1024D	FORTISWITCH 1048D	FORTISWITCH 3032D
Hardware Specifications			
Total Network Interfaces (Proposed)	24x GE/10 GE SFP+ ports	48x GE/10 GE SFP+ ports, 4x 40 GE QSFP+ ports	32x 40 GE QSFP+ ports
10/100/1000 Service Ports	1	1	1
RJ-45 Serial Console Port	1	1	1
Form Factor	1 RU Rack-Mount Appliance	1 RU Rack-Mount Appliance	1 RU Rack-Mount Appliance
System Specifications			
Switch Type	Web and CLI Managed	Web and CLI Managed	Web and CLI Managed
Switch Capacity	480 Gbps	1280 Gbps	2560 Gbps
Packets Per Second	714 Mpps	1920 Mpps	3840 Mpps
Mac Address Storage	128000	128000	128000
Network Latency	< 1us	< 1us	< 1us
/LANs Supported	4k	4k	4k
Link Aggregation Group Size	up to 24	Up to 24	Up to 24
Total Link Aggregation Groups	12	24	16
Queues/Port	10 CoS, 5 multicast	10 CoS, 5 multicast	10 CoS, 5 multicast
Packet Buffers	9 MB	9 MB	12 MB
DRAM	2 GB	2 GB	2 GB
NAND	128 MB	128 MB	128 MB
Dimensions			
Height x Width x Length (inches)	1.71 x 17.26 x 18.11	1.71 x 17.26 x 18.11	1.71 x 17.26 x 18.11
Height x Width x Length (mm)	43.5 x 438.5 x 460	43.5 x 438.5 x 460	43.5 x 438.5 x 460
Weight	17.62 lbs (8 kg)	19.40 lbs (8.8 kg)	19.40 lbs (8.8 kg)
Environment			
Power Required	100-240V AC, 50-60 Hz	100-240V AC, 50-60 Hz	100-240V AC, 50-60 Hz
Power Consumption (Maximum)	up to 140 W	up to 215.3 W	up to 387 W
Power Supply	Dual hot swappable AC	Dual hot swappable AC	Dual hot swappable AC
Operating Temperature	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)	-13–158°F (-25–70°C)
Humidity	10–90% RH non-condensing	10–90% RH non-condensing	10–90% RH non-condensing
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
Warranty			
Fortinet Warranty		Limited lifetime* warranty on all models	

 $<sup>{}^{\</sup>star} \ \mathsf{Fortinet} \ \mathsf{Warranty} \ \mathsf{Policy:} \ \mathbf{http://www.fortinet.com/doc/legal/EULA.pdf}$ 



FortiSwitch 1024D



FortiSwitch 1048D



FortiSwitch 3032D

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#### ORDER INFORMATION

Product	SKU	Description
FortiSwitch 1024D	FS-1024D	L2 switch — 24x GE/10 GE SFP/SFP+ slots, dual AC power supplies.
FortiSwitch 1048D	FS-1048D	L2 switch — 48x GE/10 GE SFP/SFP+ slots, 4x 40 GE QSFP+ slots, dual AC power supplies.
FortiSwitch 3032D	FS-3032D	L2 switch — 32x 40 GE QSFP+ slots, dual AC power supplies.
Accessories		
40 GE QSFP+ transceivers, short range	FG-TRAN-QSFP+SR	40 GE QSFP+ transceivers, short range, for all systems with QSFP+ slots.
10 GE SFP+ transceiver module, short range	FG-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range, for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ transceiver module, long range	FG-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range, for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ transceiver module, short range	FS-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range, for FortiSwitch with SFP+ and SFP/SFP+ slots.
1 GE SFP RJ45 transceiver module	FS-TRAN-GC	1 GE SFP RJ45 transceiver module for FortiSwitch D Series with SFP and SFP/SFP+ slots.
1 GE SFP LX transceivers, SMF, -40–85°C operation	FR-TRAN-LX	1 GE SFP LX transceiver module, -40–85°C, over SMF, for all systems with SFP and SFP/SFP+ slots.
1 GE SFP SX transceiver module	FG-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP transceivers, 90km range, -40-85°C operation	FR-TRAN-ZX	1 GE SFP transceivers, -40–85°C operation, 90km range, for all systems with SFP slots.
10 GBase-LRM SFP+ transceivers	FS-TRAN-SFP+LRM	10 Gbase-LRM SFP+ transceivers, 1310nm, 220m (MM 62.5/50um fiber) range for systems with SFP+ slots.
10 GBase-ER SFP+ transceivers	FS-TRAN-SFP+ER	10 Gbase-ER SFP+ transceivers, 1550nm. single mode. 40km range, for systems with SFP+ slots.



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