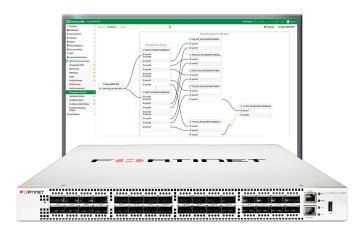
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FortiSwitch[™] Data Center Series

Available in:



Appliance

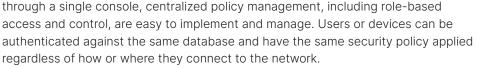


Secure, Simple, Scalable Ethernet Solution

FortiSwitch Data Center switches deliver a secure, simple, scalable Ethernet solution with outstanding throughput, resiliency, and scalability. Virtualization and cloud computing have created dense high-bandwidth Ethernet networking requirements. FortiSwitch Data Center switches meet these challenges by providing a high-performance 10 GE, 40 GE, or 100 GE capable switching platform, with a low total cost of ownership. Ideal for Top of Rack server or firewall aggregation applications, as well as SD-Branch network core deployments, these switches are purpose-built to meet the needs of today's bandwidth-intensive environments.

Security Fabric Integration Through FortiLink

The FortiSwitch Data Center Series supports FortiGate management through FortiLink, extending the Fortinet Security Fabric to the Ethernet port level. This link allows the same policies configured and applied to FortiGate interfaces to be applied to the FortiSwitch Ethernet ports, reducing complexity and decreasing management cost. With network security and access layer functions enabled and managed through a single console, centralized policy management, including role-based



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Highlights

- High throughput Ethernet switch suitable for Top of Rack or large SD-Branch network deployments
- Compact 1 RU form factor
- 1GE, 2.5GE, 5GE, 10GE, 40GE, and 100GE capable access ports
- Fixed 10GE copper port option
- 40GE or 100GE capable uplinks with breakout support for 2×50G, 4×25G, 4×10G, and 4×1G
- FortiGate management through FortiLink, enabling the Security Fabric
- Stackable up to 300 switches per FortiGate depending on model
- Dual hot-swappable power supplies for redundancy
- Supports wire-speed switching with both store and forward and cut-through forwarding modes

Product Offerings FortiSwitch FS-1024D, FS-1024E, FS-T1024E, FS-1048E, FS-3032E

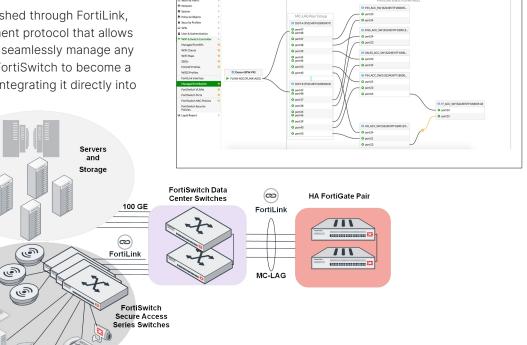
DEPLOYMENT

Deployment Overview

FortiSwitch is commonly managed and deployed through our FortiGate with FortiLink but can also be deployed and managed in non-FortiGate environments.

FortiGate

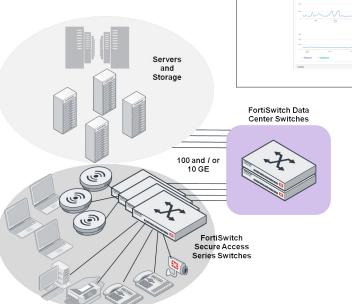
FortiGate management is accomplished through FortiLink, an innovative proprietary management protocol that allows our FortiGate security appliance to seamlessly manage any FortiSwitch. FortiLink enables the FortiSwitch to become a logical extension of the FortiGate, integrating it directly into the Fortinet Security Fabric.



Non FortiGate

FortiSwitch can be managed without a FortiGate in a traditional stand-alone fashion with a native GUI and CLI interface. FortiSwitch Manager offers stacking and

management at scale with a network design similar to a FortiGate-managed deployment. This design supports up to 2500 FortiSwitches but offers no traffic inspection or Security Fabric integration. Lastly, RESTful API's offer additional configuration and management tools.





HARDWARE



FortiSwitch 1024D - front



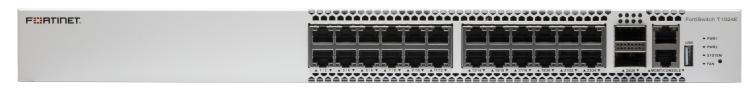
FortiSwitch 1024D — back



FortiSwitch 1024E - front



FortiSwitch 1024E — back



FortiSwitch T1024E — front



FortiSwitch T1024E — back

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HARDWARE



FortiSwitch 1048E — front



FortiSwitch 1048E — back



FortiSwitch 3032E — front



FortiSwitch 3032E — back

Management and Configuration Auto Discovery of Multiple Switches Automated Detection and Recommendations	
utomated Detection and Recommendations	Yes
	Yes
Centralized VLAN Configuration	Yes
Dynamic Port Profiles for FortiSwitch ports	Yes
ortiLink Stacking (Auto Inter-Switch Links)	Yes
GMP Snooping	Yes
3 Routing and Services	Yes (FortiGate)
ink Aggregation Configuration	Yes
LDP/MED	Yes
lumber of Managed Switches per FortiGate	8 to 300 Depending on FortiGate Model (Please refer to admin-guide)
olicy-Based Routing	Yes (FortiGate)
rovision firmware upon authorization	Yes
Software Upgrade of Switches	Yes
panning Tree	Yes
witch POE Control	Yes
Virtual Domain	Yes (FortiGate)
lealth Monitoring	Yes
ecurity and Visibility	
02.1X Authentication (Port-based, MAC-Based, MAB)	Yes
Nock Intra-VLAN Traffic	Yes
Device Detection	Yes
HCP Snooping	Yes
ortiGuard IoT identification	Yes
ortiSwitch recommendations in Security Rating	Yes
lost Quarantine on Switch Port	Yes
ntegrated FortiGate Network Access Control (NAC) function	Yes
AC Black/While Listing	Yes (FortiGate)
letwork Device Detection	Yes
Policy Control of Users and Devices	Yes (FortiGate)
witch Controller traffic collector	Yes
	Yes
iyslog Collection Port Statistics	Yes
Clients Monitoring	Yes
	Vac (East: Cata)
irewall	Yes (FortiGate)
PC, AV, Application Control, Botnet	Yes (FortiGate)
Quality for Service Egress Priority Tagging	Yes
Quality for Service Explicit Congestion Notification	Yes
ligh Availability	Y.
Active-Active Split LAG from FortiGate to FortiSwitches for Advanced Redundancy	Yes
AG Support for FortiLink Connection Support FortiLink FortiGate in HA Cluster	Yes Yes

	FS-1024D	FS-1024E / FS-T1024E	FS-1048E	FS-3032E
Layer 2				
Auto-Negotiation for Port Speed and Duplex	Yes	Yes	Yes	Yes
Auto Topology	Yes	Yes	Yes	Yes
Edge Port / Port Fast	Yes	Yes	Yes	Yes
IEEE 802.1ad QnQ	Yes	Yes	Yes	Yes
IEEE 802.1AX Link Aggregation	Yes	Yes	Yes	Yes
IEEE 802.1D MAC Bridging/STP	Yes	Yes	Yes	Yes
IEEE 802.1Q VLAN Tagging	Yes	Yes	Yes	Yes
IEEE 802.1Qbb Priority-based Flow Control	Yes	Yes	Yes	Yes
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	Yes	Yes	Yes	Yes
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)	Yes	Yes	Yes	Yes
IEEE 802.3 CSMA/CD Access Method and Physical Layer Specifications	Yes	Yes	Yes	Yes
IEEE 802.3ab 1000Base-T	Yes	Yes	Yes	Yes
IEEE 802.3ad Link Aggregation with LACP	Yes	Yes	Yes	Yes
IEEE 802.3ae 10 Gigabit Ethernet	Yes	Yes	Yes	Yes
IEEE 802.3ba, 802.3bj, 802.3bm 40 and 100 Gigabit Ethernet	No	Yes	Yes	Yes
IEEE 802.3bz Multi Gigabit Ethernet	No	Yes	No	No
EEE 802.3u 100Base-TX	Yes	No / Yes	No	Yes
EEE 802.3x Flow Control and Back-pressure	Yes	Yes	Yes	Yes
IEEE 802.3z 1000Base-SX/LX	Yes	Yes	Yes	Yes
Ingress Pause Metering	Yes	Yes	Yes	No
Jumbo Frames	Yes	Yes	Yes	Yes
LAG Min/Max Bundle	Yes	Yes	Yes	Yes
Loop Guard	Yes	Yes	Yes	Yes
MAC, IP, Ethertype-based VLANs	Yes	Yes	Yes	Yes
PHY Forward Error Correction	No	Yes	Yes	Yes
Private VLAN	Yes	Yes	Yes	Yes
Rapid PVST Interoperation	Yes	Yes	Yes	Yes
Spanning Tree Instances (MSTP/CST)	32/1	32/1	32/1	32/1
Split Port	No	No	Yes	Yes
Storm Control	Yes	Yes	Yes	Yes
STP BPDU Guard	Yes	Yes	Yes	Yes
STP Root Guard	Yes	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	Yes
Virtual-Wire	Yes	Yes	Yes	Yes
VLAN Mapping	Yes	Yes	Yes	Yes
Dynamically shared packet buffers	Yes	Yes	Yes	Yes

	FS-1024D	FS-1024E / FS-T1024E	FS-1048E	FS-3032E
Layer 3				
Bidirectional Forwarding Detection (BFD)	Yes	Yes	Yes	Yes
DHCP Relay	Yes	Yes	Yes	Yes
DHCP Server	Yes	Yes	Yes	Yes
Dynamic Routing Protocols (IPv4/IPv6)*	OSPF, RIP, VRRP, BGP, ISIS			
ECMP	Yes	Yes	Yes	Yes
Filtering Routemaps based on routing protocol	Yes	Yes	Yes	Yes
IGMP Proxy / Querier	Yes	Yes	Yes	Yes
IGMP Snooping	Yes	Yes	Yes	Yes
IP Conflict Detection and Notification	Yes	Yes	Yes	Yes
IPv6 Route Filtering	Yes	Yes	Yes	Yes
L3 Host Entries	16K	24K	32K	32K
MLD Proxy / Querier	Yes	Yes	Yes	Yes
MLD Snooping	Yes	Yes	Yes	Yes
Multicast Protocols*	PIM-SSM	PIM-SSM	PIM-SSM	PIM-SSM
Multicast Route Entries*	4k	8k	8k	8k
Policy-based Routing*	Yes	Yes	Yes	Yes
Route Entries (IPv4/IPv6)	16k/8k	24k/12k	16k/8k	8k/4k
Static Routing (Hardware-based)	Yes	Yes	Yes	Yes
Unicast Reverse Path Forwarding (uRPF)	Yes	Yes	Yes	Yes
VRF*	Yes	Yes	Yes	Yes
VXLAN	No	Yes	Yes	Yes
Security and Visibility				
ACL	Yes, 2K entries	Yes, 3K	Yes, 4K entries	Yes, 1K entries
ACL Multiple Ingress	Yes	Yes	Yes	Yes
ACL Multistage	Yes	Yes	Yes	Yes
ACL Schedule	Yes	Yes	Yes	Yes
Admin Authentication Via RFC 2865 RADIUS	Yes	Yes	Yes	Yes
Assign VLANs via Radius attributes (RFC 4675)	Yes	Yes	Yes	Yes
DHCP-Snooping	Yes	Yes	Yes	Yes
Dynamic ARP Inspection	Yes	Yes	Yes	Yes
FIPS 140-2 (level 2) support	No	Yes	Yes	Yes
Flow Export (NetFlow and IPFIX)	Yes	Yes	Yes	Yes
IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	Yes	Yes	Yes	Yes
IEEE 802.1ab LLDP-MED	Yes	Yes	Yes	Yes
IEEE 802.1X Authentication MAC-based	Yes	Yes	Yes	Yes
IEEE 802.1X Authentication Port-based	Yes	Yes	Yes	Yes
IEEE 802.1X Dynamic VLAN Assignment	Yes	Yes	Yes	Yes
IEEE 802.1X EAP Pass-Through	Yes	Yes	Yes	Yes
IEEE 802.1X Guest and Fallback VLAN	Yes	Yes	Yes	Yes
IEEE 802.1X MAC Access Bypass (MAB)	Yes	Yes	Yes	Yes
IEEE 802.1X Open Auth	Yes	Yes	Yes	Yes
IP Source Guard	Yes	Yes	Yes	Yes
IPv6 RA Guard	Yes	Yes	Yes	Yes
LLDP-MED ELIN support	Yes	Yes	Yes	Yes
MAC-IP Binding	Yes	Yes	Yes	Yes
Port Mirroring	Yes	Yes	Yes	Yes
RADIUS Accounting	Yes	Yes	Yes	Yes
RADIUS CoA	Yes	Yes	Yes	Yes
sFlow	Yes	Yes	Yes	Yes
Sticky MAC	Yes	Yes	Yes	Yes
	Yes		Yes	
Wake on LAN	162	Yes	105	Yes

* Requires 'Advanced Features' License

	FS-1024D	FS-1024E / FS-T1024E	FS-1048E	FS-3032E
High Availability				
Multi-Chassis Link Aggregation (MCLAG)	Yes	Yes	Yes	Yes
Multi-Stage Load Balancing	Yes	Yes	Yes	Yes
Quality of Service				
Egress Priority Tagging	Yes	Yes	Yes	Yes
Explicit Congestion Notification	Yes	Yes	Yes	Yes
IEEE 802.1p Based Priority Queuing	Yes	Yes	Yes	Yes
IP TOS/DSCP Based Priority Queuing	Yes	Yes	Yes	Yes
Percentage Rate Control	Yes	Yes	Yes	Yes
Management				
Automation Stitches	Yes	Yes	Yes	Yes
Display Average Bandwidth and Allow Sorting on Physical Port / Interface Traffic	Yes	Yes	Yes	Yes
Dual Firmware Support	Yes	Yes	Yes	Yes
HTTP / HTTPS	Yes	Yes	Yes	Yes
Pv4 and IPv6 Management	Yes	Yes	Yes	Yes
Link Monitor	Yes	Yes	Yes	Yes
Managed from FortiGate	Yes	Yes	Yes	Yes
Packet Capture	Yes	Yes	Yes	Yes
RMON Group 1	Yes	Yes	Yes	Yes
SNMP v1/v2c/v3	Yes	Yes	Yes	Yes
SNMP v3 traps	Yes	Yes	Yes	Yes
SNTP	Yes	Yes	Yes	Yes
Software download/upload: TFTP/FTP/GUI	Yes	Yes	Yes	Yes
SPAN, RSPAN, and ERSPAN	Yes	Yes	Yes	Yes
Standard CLI and web GUI interface	Yes	Yes	Yes	Yes
Support for HTTP REST APIs for Configuration and Monitoring	Yes	Yes	Yes	Yes
Syslog UDP/TCP	Yes	Yes	Yes	Yes
System Alias Command	Yes	Yes	Yes	Yes
System Temperature and Alert	Yes	Yes	Yes	Yes
Telnet / SSH	Yes	Yes	Yes	Yes
Services				
EEE 1588 PTP (Transparent Clock)	No	Yes	Yes	Yes

RFC COMPLIANCE

RFC and MIB Support*	RFC and MIB Support*		
BFD	IP Multicast		
RFC 5880: Bidirectional Forwarding Detection (BFD)	RFC 2362: Protocol Independent Multicast-Sparse Mode (PIM-SM): Protocol		
RFC 5881: Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)	Specification		
RFC 5882: Generic Application of Bidirectional Forwarding Detection (BFD)	RFC 2710: Multicast Listener Discovery (MLD) for IPv6 (MLDv1)		
BGP	RFC 4541: Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches		
RFC 1771: A Border Gateway Protocol 4 (BGP-4)	RFC 4605: Internet Group Management Protocol (IGMP)/Multicast Listener Discovery (MLD)-Based Multicast Forwarding ("IGMP/MLD Proxying")		
RFC 1965: Autonomous System Confederations for BGP			
RFC 1997: BGP Communities Attribute	RFC 4607: Source-Specific Multicast for IP		
RFC 2545: Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing	IPv6		
RFC 2796: BGP Route Reflection - An Alternative to Full Mesh IBGP	RFC 2464: Transmission of IPv6 Packets over Ethernet Networks: Transmission of IPv6 Packets over Ethernet Networks		
RFC 2842: Capabilities Advertisement with BGP-4	RFC 2474: Definition of the Differentiated Services Field (DS Field) in the and IPv6		
RFC 2858: Multiprotocol Extensions for BGP-4	Headers (DSCP)		
RFC 4271: BGP-4	RFC 2893: Transition Mechanisms for IPv6 Hosts and Routers		
RFC 6286: Autonomous-System-Wide Unique BGP Identifier for BGP-4	RFC 4213: Basic Transition Mechanisms for IPv6 Hosts and Router		
RFC 6608: Subcodes for BGP Finite State Machine Error	RFC 4291: IP Version 6 Addressing Architecture		
RFC 6793: BGP Support for Four-Octet Autonomous System (AS) Number Space	RFC 4443: Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification		
RFC 7606: Revised Error Handling for BGP UPDATE Messages	RFC 4861: Neighbor Discovery for IP version 6 (IPv6)		
RFC 7607: Codification of AS 0 Processing	RFC 4862: IPv6 Stateless Address Auto configuration		
RFC 7705: Autonomous System Migration Mechanisms and Their Effects on the BGP AS_PATH Attribute	RFC 5095: Deprecation of Type 0 Routing Headers in IPv6		
RFC 8212: Default External BGP (EBGP) Route Propagation Behavior without Policies	RFC 6724: Default Address Selection for Internet Protocol version 6 (IPv6)		
RFC 8654: Extended Message Support for BGP	RFC 7113: IPv6 RA Guard		
DHCP	RFC 8200: Internet Protocol, Version 6 (IPv6) Specification		
RFC 2131: Dynamic Host Configuration Protocol	RFC 8201: Path MTU Discovery for IP version 6		
RFC 3046: DHCP Relay Agent Information Option	IS-IS		
RFC 7513: Source Address Validation Improvement (SAVI) Solution for DHCP	RFC 1195: Use of OSI IS-IS for Routing in TCP/IP and Dual Environments		
IP/IPv4	RFC 5308: Routing IPv6 with IS-IS		
RFC 2697: A Single Rate Three Color Marker	MIB		
RFC 3168: The Addition of Explicit Congestion Notification (ECN) to IP	RFC 1213: MIB II parts that apply to FortiSwitch 100 units		
RFC 5227: IPv4 Address Conflict Detection	RFC 1354: IP Forwarding Table MIB		
RFC 5517: Cisco Systems' Private VLANs: Scalable Security in a Multi-Client	RFC 1493: Bridge MIB		
Environment	RFC 1573: SNMP MIB II		
RFC 7039: Source Address Validation Improvement (SAVI) Framework	RFC 1643: Ethernet-like Interface MIB		

RFC COMPLIANCE

RFC and MIB Support*	RFC and MIB Support*
1IB	OTHER
RFC 1724: RIPv2-MIB	RFC 2030: SNTP
RFC 1850: OSPF Version 2 Management Information Base	RFC 3176: InMon Corporation's sFlow: A Method for Monitoring Traffic in Switched and Routed Networks
RFC 2233: The Interfaces Group MIB using SMIv2	RFC 3768: VRRP
RFC 2618: Radius-Auth-Client-MIB	RFC 3954: Cisco Systems NetFlow Services Export Version 9
RFC 2620: Radius-Acc-Client-MIB	
RFC 2674: Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN extensions	RFC 5101: Specification of the IP Flow Information Export (IPFIX) Protocol for the Exchange of Flow Information
RFC 2787: Definitions of Managed Objects for the Virtual Router Redundancy Protocol	RFC 5798: VRRPv3 (IPv4 and IPv6)
RFC 2819: Remote Network Monitoring Management Information Base	RADIUS
RFC 2863: The Interfaces Group MIB	RFC 2865: Admin Authentication Using RADIUS
RFC 2932: IPv4 Multicast Routing MIB	RFC 2866: RADIUS Accounting
RFC 2934: Protocol Independent Multicast MIB for IPv4	RFC 4675: RADIUS Attributes for Virtual LAN and Priority Support
RFC 3289: Management Information Base for the Differentiated Services Architecture	RFC 5176: Dynamic Authorization Extensions to Remote Authentication Dial In User Service (RADIUS)
RFC 3433: Entity Sensor Management Information Base	RIP
RFC 3621: Power Ethernet MIB	RFC 1058: Routing Information Protocol
RFC 6933: Entity MIB (Version 4)	RFC 2080: RIPng for IPv6
SPF	RFC 2082: RIP-2 MD5 Authentication
RFC 1583: OSPF version 2	RFC 2453: RIPv2
RFC 1765: OSPF Database Overflow	RFC 4822: RIPv2 Cryptographic Authentication
RFC 2328: OSPF version 2	SNMP
RFC 2370: The OSPF Opaque LSA Option	RFC 1157: SNMPv1/v2c
RFC 2740: OSPF for IPv6	RFC 2571: Architecture for Describing SNMP
RFC 3101: The OSPF Not-So-Stubby Area (NSSA) Option	RFC 2572: SNMP Message Processing and Dispatching
RFC 3137: OSPF Stub Router Advertisement	RFC 2573: SNMP Applications
RFC 3623: OSPF Graceful Restart	RFC 2576: Coexistence between SNMP versions
RFC 5340: OSPF for IPv6 (OSPFv3)	VXLAN
RFC 5709: OSPFv2 HMAC-SHA Cryptographic Authentication	RFC 7348: Virtual eXtensible Local Area Network (VXLAN)
RFC 6549: OSPFv2 Multi-Instance Extensions	
RFC 6845: OSPF Hybrid Broadcast and Point-to-Multipoint Interface Type	
RFC 6860: Hiding Transit-Only Networks in OSPF	
RFC 7474: Security Extension for OSPFv2 When Using Manual Key Management	
RFC 7503: OSPF for IPv6	
RFC 8042: CCITT Draft Recommendation T.4	

RFC 8362: OSPFv3 Link State Advertisement (LSA) Extensibility

SPECIFICATIONS

SPECIFICATIONS				
	FORTISWITCH 1024D	FORTISWITCH 1024E	FORTISWITCH T1024E	
Hardware Specifications				
Total Network Interfaces	24x GE/10 GE SFP+ ports	24x GE/10GE SFP+ ports and 2× 40GE / 100GE QSFP+ / QSFP28 ports	24× 1G/2.5G/5G/10GBASE-T ports and 2× 40GE / 100GE QSFP+ / QSFP28 ports	
10/100/1000 Service Ports	1	1	1	
RJ-45 Serial Console Port	1	1	1	
Form Factor	1 RU Rack Mount	1 RU Rack Mount	1 RU Rack Mount	
System Specifications				
Switching Capacity (Duplex)	480 Gbps	880 Gbps	880 Gbps	
Packets Per Second (Duplex) 64 bytes	714 Mpps	1309 Mpps	1309 Mpps	
Mac Address Storage	128 K	64k	64k	
Network Latency	< 800ns	~1us	~1us	
/LANs Supported	4 K	4k	4k	
Pv4/IPv6 Routing	Yes	Yes	Yes	
ink Aggregation Group Size	Up to 24	Up to 24	Up to 24	
otal Link Aggregation Groups	Up to number of ports	Up to number of ports	Up to number of ports	
Queues/Port	8	8	8	
Packet Buffers	9 MB	8 MB	8 MB	
DRAM	2 GB	8 GB	8 GB	
IAND	128 MB	32 MB	32 MB	
Dimensions				
leight x Depth x Width (inches)	1.71 × 18.11 × 17.26	1.71 × 18.11 × 17.26	1.71 × 18.11 × 17.26	
leight x Depth x Width (mm)	43.5 × 460 × 438.5	43.5 × 460 × 438.5	43.5 × 460 × 438.5	
Veight	17.62 lbs (8 kg)	14.5 lbs (6.58 kg)	14.4 lbs (6.54 kg)	
Invironment				
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	176 W	128 W	
Power Supply	Dual hot swappable AC	Dual hot swappable AC	Dual hot swappable AC	
leat Dissipation	369.87 BTU/h	599.13 BTU/h	436.48 BTU/h	
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)	
łumidity	10%–90% RH non-condensing	10%–90% RH non-condensing	10%–90% RH non-condensing	
lir Flow	Front to back	Front to back	Front to back	
loise Level	53.2 dBA	56 dBA	57.3 dBA	
lean Time Between Failures	> 10 years	> 10 years	> 10 years	
Certification and Compliance				
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Warranty				
	Limited lifetime* warranty on all models			

* Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf

PECIFICATIONS				
	FORTISWITCH 1048E	FORTISWITCH 3032E		
Hardware Specifications				
Total Network Interfaces	48x GE/10 GE SFP+ ports and 6× 40 GE QSFP+ ports or 4× 100 GE QSFP28 ports	32× 40 GE / 100 GE QSFP+ / QSFP28 ports		
0/100/1000 Service Ports	1	1		
J-45 Serial Console Port	1	1		
orm Factor	1 RU Rack Mount	1 RU Rack Mount		
ystem Specifications				
Switching Capacity (Duplex) *	1760 Gbps	6400 Gbps		
Packets Per Second (Duplex) 64 bytes	1518 Mpps	5952 Mpps		
Aac Address Storage	144 К	72 К		
Network Latency	< 800ns	< 1 us		
/LANs Supported	4 K	4 К		
Pv4/IPv6 Routing	Yes	Yes		
ink Aggregation Group Size	Up to 48	Up to number of ports		
otal Link Aggregation Groups	Up to number of ports	Up to number of ports		
Queues/Port	8	8		
Packet Buffers	12 MB	16 MB		
RAM	8 GB	8 GB		
IAND	128 MB	128 MB		
imensions				
leight x Depth x Width (inches)	1.69 × 18.11 × 17.26	1.69 × 18.11 × 17.26		
leight x Depth x Width (mm)	43 × 460 × 438.5	43 × 460 × 438.5		
Veight	18.96 lbs (8.6 kg)	19.34 lbs (8.77 kg)		
nvironment				
Power Required	100-240V AC, 50-60 Hz	100-240V AC, 50-60 Hz		
Power Consumption (Maximum)	up to 181.7 W	up to 463.8 W		
Power Supply	Dual hot swappable AC	Dual hot swappable AC		
leat Dissipation	620.4 BTU/h	1582.5 BTU/h		
Operating Temperature	32°-113°F (0°-45°C)	32°-104°F (0°-40°C)		
Storage Temperature	-4°-158°F (-20°-70°C)	-4°-158°F (-20°-70°C)		
lumidity	10%–90% RH non-condensing	10%–90% RH non-condensing		
\ir Flow	Front to back	Front to back		
loise Level	59 dBA	69.1 dBA		
lean Time Between Failures	> 10 years	> 10 years		
ertification and Compliance				
	FCC, CE, RCM, VC	CI, BSMI, UL, CB, RoHS2		
Narranty				
Fortinet Warranty	Limited lifetime** warranty on all models			

Fortinet Warranty

* Full line rate with minimum packet size of 427 bytes on FS-1048E and 250bytes on FS-3032E

** Fortinet Warranty Policy: http://www.fortinet.com/doc/legal/EULA.pdf

ORDER INFORMATION

Product	SKU	Description		
FortiSwitch 1024D	FS-1024D	Layer 2/3 FortiGate switch controller compatible switch with 24x GE/10 GE SFP/SFP+ slots. Dual AC power supplies.		
FortiSwitch 1024E FS-1024E		Layer 2/3 FortiGate switch controller compatible switch with 24 x GE/10GE SFP/SFP+ slots and 2 \times 100GE QSFP28. Dual AC power supplies.		
FortiSwitch T1024E FS-T1024E		Layer 2/3 FortiGate switch controller compatible switch with 24 × 1G/2.5G/5G/10GBase-T slots and 2 x 100GE QSFP28. Dual AC power supplies.		
FortiSwitch 1048E FS-1048E		Layer 2/3 FortiGate switch controller compatible switch with 48x GE/10 GE SFP/SFP+ slots and 6× 40 GE QSFP+ or 4× 100 GE QSFP28. Dual AC power supplies.		
FortiSwitch-3032E	FS-3032E	Layer 2/3 FortiGate switch controller compatible switch with 32× 100 GE QSFP28, Dual AC power supplies.		
FortiLAN Cloud Management License	FC-10-FSW30-628-02-DD	FortiSwitch 1000 Series and Above FortiLAN Cloud Management SKU Including Forticare 24×7. Note, FortiCare only applicable when used with FortiLAN Cloud.		
FortiGate Cloud Management*	FC-10-0030E-131-02-DD	FortiGate Cloud Management, Analysis and 1 Year Log Retention.		
FortiSwitchManager Subscription License	FC1-10-SWMVM-258-01-DD	Subscription license for 10 FortiSwitch Units managed by FortiSwitchManager VM. 24×7 FortiCare support (for FSWM VM) included.		
	FC2-10-SWMVM-258-01-DD	Subscription license for 100 FortiSwitch Units managed by FortiSwitchManager VM. 24×7 FortiCare support (for FSWM VM) included.		
	FC3-10-SWMVM-258-01-DD	Subscription license for 1000 FortiSwitch Units managed by FortiSwitchManager VM. 24×7 FortiCare support (for FSWM VM) included.		
Accessories				
FortiSwitch Advanced Features License	FS-SW-LIC-1000	SW License for FS-1000 Series Switches to activate Advanced Features.		
	FS-SW-LIC-3000	SW License for FS-3000 Series Switches to activate Advanced Features.		
AC Power Supply	FS-PSU-460	Spare AC power supply for FS-1048E/1024D.		
	FS-PSU-800	Spare AC power supply for FS-3032E.		

* When managing a FortiSwitch with a FortiGate via FortiGate Cloud, no additional license is necessary.

For details of Transceiver modules, see the Fortinet Transceivers datasheet.

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