



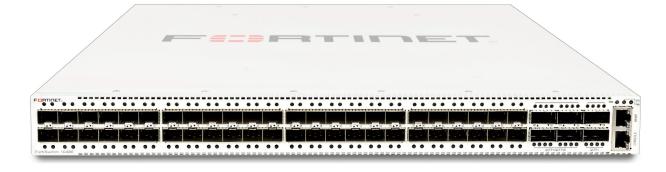
FortiSwitch™ Campus Core and Data Center

FS-1024E, FS-T1024E, FS-T1024F-FPOE, FS-1048E, FS-3032E, FS-2048F

Available in



Appliance



Highlights

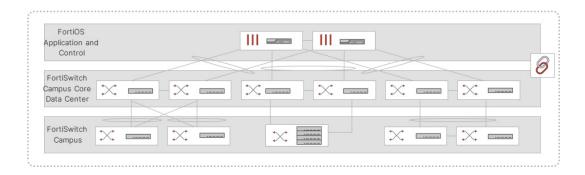
- High throughput with low latency
- Standalone or Integrated deployment options
- Zero-touch deployment
- On premise and cloud based management
- Intuitive management
- Access control and policy enforcement
- Scalable and flexible
- Dual hot-swappable power supplies
- Up to 48 access ports in a compact 1 RU form

The FortiSwitch™ campus core and data center family excel in performance, security, and resiliency, making them the optimal choice for both campus core and data center networking needs.

The proliferation of virtualization, cloud computing, and the increasing volume of data generated by users and IoT devices has necessitated dense high-bandwidth Ethernet networking and aggregation. In these environments, the paramount concerns are data security, performance, and resiliency. These dynamic settings demand efficient network management, monitoring, and optimization efforts while simplifying overall network complexity. The FortiSwitch campus core and data center switching architecture empowers network administrators with the requisite performance, control, and manageability for these demanding scenarios. Its seamless security integration and user-friendly management interface establish a robust foundation for your next-generation campus core or data center.

Secure Networking with FortiLink

FortiLink is an innovative proprietary management protocol, enabling seamless integration and centralized management between a FortiGate Next-Generation Firewall and the FortiSwitch Ethernet switching platform. FortiLink transforms the FortiSwitch into a logical extension of the FortiGate, streamlining the management of the both Ethernet data center and network security functions via unified interface. Offering high performance with low latency, FortiGate NGFW and FortiSwitch campus core and data center switching can support the demands of high-speed traffic inspection and segmentation.



Segmentation and Policy Enforcement

FortiSwitch campus core and data center switching architecture can augment and further the security policies at the FortiSwitch access switch layer and enable high speed data traffic segmentation through FortiLink. This process grants IT administrators control over traffic within segments and limits threat exposure. Policy enforcement is simplified, while next-generation firewall (NGFW)-level policies ensure effective security at the core of your network.

SASE

The FortiSwitch enterprise architecture establishes a foundation for zero-trust network access (ZTNA) and secure access service edge (SASE), offering flexibility in deploying the desired level of security at the network edge.

Operational Simplicity

FortiSwitch switching architecture enables secure deployment and management within minutes through zero-touch deployment. Whether in standalone or FortiLink mode, automation and orchestration offer intuitive workflows and unified views for provisioning, management, and optimization, accessible through both FortiCloud and on-premises management.

Centralized management provides a unified, single view encompassing both the LAN and security, ensuring a consistent user experience that optimizes operational efficiency while simplifying management, optimization, and troubleshooting. This activity results in a reduced mean time to repair for both network and security issues.

Scalable and Flexible Campus Core and Data Center

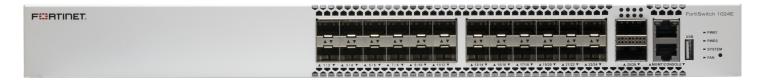
FortiSwitch enterprise architecture scales effortlessly to meet the demands of today's next-generation campus cores and data centers, all without compromising on security. Supporting up to 48 ports within a compact 1 RU form factor, FortiSwitch minimizes rack space usage while delivering the requisite performance and scalability. Each switch series in the campus core and data center family offers models that enable the administrator to choose the appropriate media for their environment through a wide range of Fortinet transceivers. This feature also applies to the uplinks, with speeds up to 100 GE supporting various media.



Campus Core and Data Center FortiOS



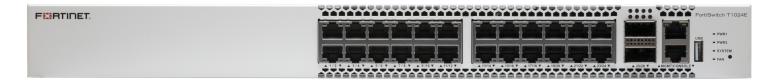
Hardware



FortiSwitch 1024E — front



FortiSwitch 1024E — back



FortiSwitch T1024E — front



FortiSwitch T1024E — back



FortiSwitch T1024F-FPOE — front



FortiSwitch T1024F-FPOE — back



Hardware



FortiSwitch 1048E — front



FortiSwitch 1048E — back



FortiSwitch 3032E — front



FortiSwitch 3032E — back



FortiSwitch 2048F — front



FortiSwitch 2048F — back



	FORTISWITCH E/F-SERIES FORTILINK MODE (WITH FORTIGATE)
Management and Configuration	
Auto Discovery of Multiple Switches	\odot
Automated Detection and Recommendations	\odot
Centralized VLAN Configuration	\odot
Dynamic Port Profiles for FortiSwitch ports	\odot
FortiLink Stacking (Auto Inter-Switch Links)	\odot
FortiLink Secure Fabric	\odot
FortiSwitch Management over VXLAN	\odot
Health Monitoring	\odot
IGMP Snooping	\odot
L3 Routing and Services	(FortiGate)
Link Aggregation Configuration	\odot
LLDP/MED	⊘
Number of Managed Switches per FortiGate	8 to 300 Depending on FortiGate Model (Please refer to admin-guide)
Policy-Based Routing	(FortiGate)
Provision firmware upon authorization	⊘
Software Upgrade of Switches	\odot
Spanning Tree	\odot
Switch POE Control	\odot
Virtual Domain	(FortiGate)
Security and Visibility	
802.1X Authentication (Port-based, MAC-Based, MAB)	\odot
Block Intra-VLAN Traffic	<u> </u>
Clients Monitoring	<u></u>
Device Detection	<u> </u>
DHCP Snooping	<u></u>
DHCP/ARP Monitor	<u> </u>
FortiGuard IoT identification	 ⊘
FortiSwitch recommendations in Security Rating	<u> </u>
FortiSwitch VLANs over VXLAN	 ⊘
Host Quarantine on Switch Port	<u> </u>
Integrated FortiGate Network Access Control (NAC) function	<u></u>
MAC Black/While Listing	(V) (FortiGate)
NAC Device Telemetry	∅
Network Device Detection	<u> </u>
Policy Control of Users and Devices	⟨→⟩ (FortiGate)
Port Statistics	∅
Security Fabric Automation	<u> </u>
Switch Controller traffic collector	<u> </u>
Syslog Collection	<u></u>
UTM Features	
Firewall	
IPC, AV, Application Control, Botnet	(FortiGate)
Quality for Service Egress Priority Tagging	⊙ (Forticate)
Quality for Service Explicit Congestion Notification	 ⊗
High Availability	lacktriangle
Active-Active Split LAG from FortiGate to FortiSwitches for Advanced Redundancy	\odot
LAG Support for FortiLink Connection	 ⊗
Support FortiLink FortiGate in HA Cluster	\odot



	FS-T1024F-FPOE	FS-1024E/FS-T1024E	FS-1048E	FS-2048F	FS-3032E
Layer 2					
Auto-Negotiation for Port Speed and Duplex	\odot	\odot	\odot	\odot	\odot
Auto Topology	\odot	\odot	\odot	\odot	\odot
Dynamically shared packet buffers	\odot	\odot	\odot	\odot	\odot
Edge Port / Port Fast	\odot	\odot	\odot	\odot	\odot
IEEE 802.1ad QnQ	\odot	\odot	\odot	\odot	\odot
IEEE 802.1AX Link Aggregation	\odot	\odot	\odot	\odot	\odot
IEEE 802.1D MAC Bridging/STP	\odot	\odot	\odot	\odot	\odot
IEEE 802.1Q VLAN Tagging	\odot	\odot	\odot	\odot	\odot
IEEE 802.1Qbb Priority-based Flow Control	\bigcirc	\odot	\odot	\odot	\odot
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	\odot	\odot	\odot	\odot	\odot
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)	\bigcirc	\odot	\odot	\odot	\odot
IEEE 802.3 CSMA/CD Access Method and Physical Layer Specifications	\odot	\bigcirc	\odot	\odot	\odot
IEEE 802.3ab 1000Base-T	\bigcirc	\odot	\bigcirc	\odot	\odot
IEEE 802.3ad Link Aggregation with LACP	\bigcirc	\odot	\bigcirc	\odot	\odot
IEEE 802.3ae 10 Gigabit Ethernet	\bigcirc	\odot	\bigcirc	\odot	\odot
IEEE 802.3ba, 802.3bj, 802.3bm 40 and 100 Gigabit Ethernet	\odot	\odot	\odot	\odot	\odot
IEEE 802.3by 25 Gigabit Ethernet	\odot	\odot	\odot	\odot	\odot
IEEE 802.3bz Multi Gigabit Ethernet	\odot	\odot	_	_	_
IEEE 802.3u 100Base-TX	\odot	\odot	\odot	\odot	\odot
IEEE 802.3x Flow Control and Back-pressure	\odot	\odot	\odot	\odot	\odot
IEEE 802.3z 1000Base-SX/LX	\odot	\odot	\odot	\odot	\odot
Ingress Pause Metering	\odot	\odot	\odot	\odot	_
Jumbo Frames	\odot	\odot	\odot	\odot	\odot
LAG Min/Max Bundle	\odot	\odot	\odot	\odot	\odot
Loop Guard	\odot	\odot	\odot	\odot	\odot
MAC, IP, Ethertype-based VLANs	\odot	\odot	\odot	\odot	\odot
PHY Forward Error Correction	\odot	\odot	\odot	\odot	\odot
Private VLAN	\odot	\odot	\odot	\odot	\odot
Rapid PVST Interoperation	\odot	\odot	\odot	\odot	\odot
Spanning Tree Instances (MSTP/CST)	64	64	64	64	64
Split Port	\bigcirc	\odot	\odot	_	\odot
Storm Control	\odot	\odot	\odot	\odot	\odot
STP BPDU Guard	\odot	\odot	\odot	\odot	\odot
STP Root Guard	\odot	\odot	\odot	\odot	\odot
Unicast/Multicast traffic balance over trunking port (dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac)	\odot	\bigcirc	\odot	\odot	\odot
Virtual-Wire	\odot	\odot	\bigcirc	\odot	\odot
VLAN Mapping	\odot	\odot	\odot	\odot	\odot



Layer 2	FS-T1024F-FPOE	FS-1024E / FS-T1024E	FS-1048E	FS-2048F	FS-3032E
Layer 3					
Bidirectional Forwarding Detection (BFD)	<u> </u>				
BGP Ethernet VPN					
DHCP Relay	\bigcirc	\bigcirc	\odot	\bigcirc	\bigcirc
DHCP Server	OCDE DID VODD DOD	OCCE DID VODD DOD			
Dynamic Routing Protocols (IPv4/IPv6)*	OSPF, RIP, VRRP, BGP, ISIS				
ECMP	\odot	\odot	\odot	\odot	\odot
Filtering Routemaps based on routing protocol	\odot	\odot	\odot	\odot	\odot
IGMP Proxy / Querier	\odot	\odot	\odot	\odot	\odot
IGMP Snooping	\odot	\odot	\odot	\odot	\odot
IP Conflict Detection and Notification	\odot	\odot	\odot	\odot	\odot
IPv6 Route Filtering	\odot	\odot	\odot	\odot	\odot
L3 Host Entries (IPv4/IPv6)	16k/6k	16k/6k	16k/11k	16k/8k	16k/12k
MLD Proxy / Querier	\odot	\odot	\odot	\odot	\odot
MLD Snooping	\odot	\odot	\odot	\odot	\odot
Multicast Protocols*	PIM-SSM	PIM-SSM	PIM-SSM	PIM-SSM	PIM-SSM
Multicast Route Entries*	8k	8k	8k	8k	8k
Policy-based Routing*	\odot	\odot	\odot	\odot	\odot
Route Entries (IPv4/IPv6)	8k/4k	8k/4k	14k/6k	16k/8k	8k/4k
Static Routing (Hardware-based)	\odot	\odot	\odot	\odot	\odot
Unicast Reverse Path Forwarding (uRPF)	\bigcirc	\odot	\odot	\odot	\odot
VRF*	\odot	\odot	\odot	\odot	\odot
VXLAN	\bigcirc	\bigcirc	\odot	\odot	\bigcirc
Security and Visibility					
ACL	3K	3K	4K	3K	1K
ACL Multiple Ingress	\odot	\odot	\odot	\odot	\odot
ACL Multistage	\odot	\odot	\odot	\odot	\odot
ACL Schedule	\odot	\odot	\odot	\odot	\odot
Admin Authentication Via RFC 2865 RADIUS	\odot	\odot	\odot	\odot	\odot
Assign VLANs via Radius attributes (RFC 4675)	\odot	\odot	\odot	\odot	\odot
DHCP-Snooping	\odot	\odot	\odot	\odot	\odot
Dynamic ARP Inspection	\odot	\odot	\odot	\odot	\odot
FIPS 140-2 (level 2) support	\odot	\odot	\odot	\odot	\odot
Flow Export (NetFlow and IPFIX)	\odot	\odot	\odot	\odot	\odot
IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	\odot	\odot	\odot	\odot	\odot
IEEE 802.1ab LLDP-MED	\odot	\odot	\odot	\odot	\odot
IEEE 802.1ae MAC Security (MAC Sec)	\odot	\odot	_		_
IEEE 802.1X Authentication MAC-based	\odot	\odot	\odot	\odot	\odot
IEEE 802.1X Authentication Port-based	\odot	\odot	\odot	\odot	\odot
IEEE 802.1X Dynamic VLAN Assignment	\odot	\otimes	\odot	\odot	\odot
IEEE 802.1X EAP Pass-Through	\odot	\odot	\odot	\odot	\odot
IEEE 802.1X Guest and Fallback VLAN	\odot	\otimes	\odot	\odot	\odot
IEEE 802.1X MAC Access Bypass (MAB)	\odot	\odot	\odot	\odot	\odot
IEEE 802.1X Open Auth	\odot	\odot	\odot	\odot	\odot
IP Source Guard	\odot	\odot	\odot	\odot	\odot
IPv6 RA Guard	\odot	\odot	\odot	\odot	\odot
LLDP-MED ELIN support	\odot	\odot	\odot	\odot	\odot
MAC-IP Binding	\odot	\odot	\odot	\odot	\odot
Port Mirroring	\odot	\odot	\odot	\odot	\odot
RADIUS Accounting	\odot	\odot	\odot	\odot	\odot
RADIUS CoA	\odot	\odot	\odot	\odot	\odot
sFlow	\odot	\odot	\odot	\odot	\odot
Sticky MAC	\odot	\odot	\odot	\odot	\odot
Wake on LAN	\odot	\odot	\odot	\odot	\odot



	FS-T1024F-FPOE	FS-1024E / FS-T1024E	FS-1048E	FS-2048F	FS-3032E
High Availability					
Multi-Chassis Link Aggregation (MCLAG)	\odot	\odot	\odot	\odot	\odot
Multi-Stage Load Balancing	\odot	\odot	<u> </u>	— <u> </u>	\odot
Quality of Service	_	_	_	_	_
Egress Priority Tagging	\odot	\odot	\odot	\odot	\odot
Explicit Congestion Notification	⊘	⊙			\odot
IEEE 802.1p Based Priority Queuing					\odot
IP TOS/DSCP Based Priority Queuing	⊘		\odot	\odot	\odot
Percentage Rate Control	\odot		\odot	\odot	\odot
Management					
Automation Stitches	\odot	\bigcirc	\bigcirc	\bigcirc	\odot
Display Average Bandwidth and Allow Sorting on Physical Port / Interface Traffic	\odot	\odot	\odot	\odot	\odot
Dual Firmware Support	\odot	\bigcirc	\bigcirc	\odot	\odot
HTTP / HTTPS	\odot	\bigcirc	\odot	\odot	\odot
IPv4 and IPv6 Management	\odot	\bigcirc	\bigcirc	\odot	\odot
Link Monitor	\odot	\bigcirc	\odot	\odot	\odot
Managed from FortiGate	\odot	\bigcirc	\bigcirc	\odot	\odot
Packet Capture	\odot	\bigcirc	\bigcirc	\odot	\odot
PoE Control Modes	\odot	_	_	_	_
RMON Group 1	\odot	\bigcirc	\bigcirc	\odot	\odot
SNMP v1/v2c/v3	\odot	\odot	\odot	\odot	\odot
SNMP v3 traps	\odot	\odot	\odot	\odot	\odot
SNTP	\odot	\odot	\odot	\odot	\odot
Software download/upload: SFTP/TFTP/FTP/GUI	\odot	\odot	\odot	\odot	\odot
SPAN, RSPAN, and ERSPAN	\odot	\odot	\odot	\odot	\odot
Standard CLI and web GUI interface	\odot	\odot	\odot	\odot	\odot
Support for HTTP REST APIs for Configuration and Monitoring	\odot	\odot	\odot	\odot	\odot
Syslog UDP/TCP	\odot	\odot	\odot	\odot	\odot
System Alias Command	\odot	\odot	\odot	\odot	\odot
System Temperature and Alert	\odot	\odot	\odot	\odot	\odot
Telnet / SSH	\odot	\odot	\odot	\odot	\odot
Services					
IEEE 1588 PTP (Transparent Clock)	\odot	\odot	\odot	\odot	\odot



RFC and MIB Support*

RFC Compliance

3FD	
RFC	5880: Bidirectional Forwarding Detection (BFD)
RFC	5881: Bidirectional Forwarding Detection (BFD) for IPv4 and IPv6 (Single Hop)
RFC	5882: Generic Application of Bidirectional Forwarding Detection (BFD)
BGP	
RFC	1771: A Border Gateway Protocol 4 (BGP-4)
RFC	1965: Autonomous System Confederations for BGP
RFC	1997: BGP Communities Attribute
RFC	2545: Use of BGP-4 Multiprotocol Extensions for IPv6 Inter-Domain Routing
RFC	2796: BGP Route Reflection - An Alternative to Full Mesh IBGP
RFC	2842: Capabilities Advertisement with BGP-4
RFC	2858: Multiprotocol Extensions for BGP-4
RFC	4271: BGP-4
RFC	6286: Autonomous-System-Wide Unique BGP Identifier for BGP-4
RFC	6608: Subcodes for BGP Finite State Machine Error
RFC	6793: BGP Support for Four-Octet Autonomous System (AS) Number Space
RFC	7606: Revised Error Handling for BGP UPDATE Messages
RFC	7607: Codification of AS 0 Processing
	7705: Autonomous System Migration Mechanisms and Their Effects on the BGF ATH Attribute
RFC	8212: Default External BGP (EBGP) Route Propagation Behavior without Policies
RFC	8654: Extended Message Support for BGP
DHCP	
RFC	2131: Dynamic Host Configuration Protocol
RFC	3046: DHCP Relay Agent Information Option
RFC	7513: Source Address Validation Improvement (SAVI) Solution for DHCP
IP/IPv4	
RFC	2697: A Single Rate Three Color Marker
RFC	3168: The Addition of Explicit Congestion Notification (ECN) to IP
RFC	5227: IPv4 Address Conflict Detection
	5517: Cisco Systems' Private VLANs: Scalable Security in a Multi-Client onment
REC	7039: Source Address Validation Improvement (SAVI) Framework

ΙP	Multicast
F	RFC 2710: Multicast Listener Discovery (MLD) for IPv6 (MLDv1)
F	RFC 3569: An Overview of Source-Specific Multicast (SSM)
	RFC 4541: Considerations for Internet Group Management Protocol (IGMP) and Multicast Listener Discovery (MLD) Snooping Switches
	RFC 4605: Internet Group Management Protocol (IGMP)/Multicast Listener Discovery MLD)-Based Multicast Forwarding ("IGMP/MLD Proxying")
F	RFC 4607: Source-Specific Multicast for IP
lΡν	/6
	RFC 2464: Transmission of IPv6 Packets over Ethernet Networks: Transmission of IPv6 Packets over Ethernet Networks
	RFC 2474: Definition of the Differentiated Services Field (DS Field) in the and IPv6 Headers (DSCP)
F	RFC 2893: Transition Mechanisms for IPv6 Hosts and Routers
F	RFC 4213: Basic Transition Mechanisms for IPv6 Hosts and Router
F	RFC 4291: IP Version 6 Addressing Architecture
	RFC 4443: Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification
F	RFC 4861: Neighbor Discovery for IP version 6 (IPv6)
F	RFC 4862: IPv6 Stateless Address Auto configuration
F	RFC 5095: Deprecation of Type 0 Routing Headers in IPv6
F	RFC 6724: Default Address Selection for Internet Protocol version 6 (IPv6)
F	RFC 7113: IPv6 RA Guard
F	RFC 8200: Internet Protocol, Version 6 (IPv6) Specification
F	RFC 8201: Path MTU Discovery for IP version 6
IS-	IS
F	RFC 1195: Use of OSI IS-IS for Routing in TCP/IP and Dual Environments
F	RFC 5308: Routing IPv6 with IS-IS
MI	В
F	RFC 1213: MIB II parts that apply to FortiSwitch 100 units
F	RFC 1354: IP Forwarding Table MIB
F	RFC 1493: Bridge MIB
F	RFC 1573: SNMP MIB II
F	RFC 1643: Ethernet-like Interface MIB



 $^{*~\}mathsf{RFC}~\mathsf{and}~\mathsf{MIB}~\mathsf{supported}~\mathsf{by}~\mathsf{FortiSwitch}~\mathsf{Operating}~\mathsf{System}.~\mathsf{Check}~\mathsf{FortiSwitch}~\underline{\mathsf{Feature}~\mathsf{Matrix}}~\mathsf{for}~\mathsf{model}~\mathsf{specific}~\mathsf{support}.$

RFC Compliance

RFC and M	IIB Support*
MIB	
RFC 172	4: RIPv2-MIB
RFC 185	0: OSPF Version 2 Management Information Base
RFC 223	3: The Interfaces Group MIB using SMIv2
RFC 261	8: Radius-Auth-Client-MIB
RFC 262	0: Radius-Acc-Client-MIB
	4: Definitions of Managed Objects for Bridges with Traffic Classes, Multicast and Virtual LAN extensions
RFC 278	7: Definitions of Managed Objects for the Virtual Router Redundancy Protocol
RFC 281	9: Remote Network Monitoring Management Information Base
RFC 286	3: The Interfaces Group MIB
RFC 293	2: IPv4 Multicast Routing MIB
RFC 293	4: Protocol Independent Multicast MIB for IPv4
RFC 328	9: Management Information Base for the Differentiated Services Architecture
RFC 343	3: Entity Sensor Management Information Base
RFC 362	1: Power Ethernet MIB
RFC 693	3: Entity MIB (Version 4)
OSPF	
RFC 158	3: OSPF version 2
RFC 176	5: OSPF Database Overflow
RFC 232	8: OSPF version 2
RFC 237	0: The OSPF Opaque LSA Option
RFC 274	0: OSPF for IPv6
RFC 310	1: The OSPF Not-So-Stubby Area (NSSA) Option
RFC 313	7: OSPF Stub Router Advertisement
RFC 362	3: OSPF Graceful Restart
RFC 534	0: OSPF for IPv6 (OSPFv3)
RFC 570	9: OSPFv2 HMAC-SHA Cryptographic Authentication
RFC 654	9: OSPFv2 Multi-Instance Extensions
RFC 684	5: OSPF Hybrid Broadcast and Point-to-Multipoint Interface Type
RFC 686	0: Hiding Transit-Only Networks in OSPF
RFC 747	4: Security Extension for OSPFv2 When Using Manual Key Management
RFC 750	3: OSPF for IPv6
RFC 804	2: CCITT Draft Recommendation T.4
RFC 836	2: OSPFv3 Link State Advertisement (LSA) Extensibility

FC and MIB Support*
THER
RFC 2030: SNTP
RFC 3176: InMon Corporation's sFlow: A Method for Monitoring Traffic in Switched and Routed Networks
RFC 3768: VRRP
RFC 3954: Cisco Systems NetFlow Services Export Version 9
RFC 5101: Specification of the IP Flow Information Export (IPFIX) Protocol for the Exchange of Flow Information
RFC 5798: VRRPv3 (IPv4 and IPv6)
ADIUS
RFC 2865: Admin Authentication Using RADIUS
RFC 2866: RADIUS Accounting
RFC 4675: RADIUS Attributes for Virtual LAN and Priority Support
RFC 5176: Dynamic Authorization Extensions to Remote Authentication Dial In User Service (RADIUS)
IP .
RFC 1058: Routing Information Protocol
RFC 2080: RIPng for IPv6
RFC 2082: RIP-2 MD5 Authentication
RFC 2453: RIPv2
RFC 4822: RIPv2 Cryptographic Authentication
NMP
RFC 1157: SNMPv1/v2c
RFC 2571: Architecture for Describing SNMP
RFC 2572: SNMP Message Processing and Dispatching
RFC 2573: SNMP Applications
RFC 2576: Coexistence between SNMP versions
XLAN
RFC 7348: Virtual eXtensible Local Area Network (VXLAN)

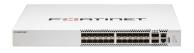


 $^{*\ \}mathsf{RFC}\ \mathsf{and}\ \mathsf{MIB}\ \mathsf{supported}\ \mathsf{by}\ \mathsf{FortiSwitch}\ \mathsf{Operating}\ \mathsf{System}.\ \mathsf{Check}\ \mathsf{FortiSwitch}\ \underline{\mathsf{Feature}\ \mathsf{Matrix}}\ \mathsf{for}\ \mathsf{model}\ \mathsf{specific}\ \mathsf{support}.$

Specifications

	FORTISWITCH 1024E	FORTISWITCH T1024E	FORTISWITCH T1024F-FPOE	
Hardware Specifications				
Total Network Interfaces	24×10G/1G SFP+/SFP ports and 2×100G/40G QSFP28/QSFP+ ports	24× 10G/5G/2.5G/1G/100M BASE-T ports and 24× 10G/5G/2.5G/1G/100M B 2× 100G/40G QSFP28/QSFP+ ports 2× 100G/40G QSFP28/		
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	
Power over Ethernet (PoE) Ports	_	_	24 (802.3 af/at/bt type 4)	
PoE Power Budget	_	_	1440 W	
System Specifications				
Switching Capacity (Duplex)	880 Gbps	880 Gbps	880 Gbps	
Packets Per Second (Duplex) 64 bytes	1309 Mpps	1309 Mpps	1309 Mpps	
Mac Address Storage	64k	64k	64k	
Network Latency	~1µs	~1µs	~ 1µs	
/LANs Supported	4k	4k	4k	
Pv4/IPv6 Routing	\bigcirc	\odot	\odot	
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		
Packet Buffers	8 MB	8 MB		
Memory	8GB DDR4	8GB DDR4	8GB DDR4	
Flash	32MB NOR	32MB NOR	32MB NOR	
Orive	8GB SSD	8GB SSD	8GB SSD	
Dimensions				
leight x Depth x Width (inches)	1.73 × 16.14 × 17.32	1.73 × 16.14 × 17.32	1.73 × 16.14 × 17.32	
Height x Depth x Width (mm)	44 × 410 × 440	44 × 410 × 440	44 × 410 × 440	
Veight	14.5 lbs (6.58 kg)	14.4 lbs (6.54 kg)	16.53 lbs (7.5 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)	176 W	128 W	1660W	
Power Supply	Dual hot swappable AC	Dual hot swappable AC	Dual hot swappable AC	
leat Dissipation	599.13 BTU/h	436.48 BTU/h	5664 BTU/h	
Operating Temperature	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	32°F to 113°F (0°C to 45°C)	
Storage Temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	
lumidity	10% to 90% RH non-condensing	10% to 90% RH non-condensing	10% to 95% RH non-condensing	
Air Flow	Front to back	Front to back	Front to back	
Noise Level	56 dBA	57.3 dBA	64.5 dBa	
Mean Time Between Failures	> 10 years	> 10 years	> 10 years	
Certification and Compliance				
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Varranty				
Fortinet Warranty	Limited lifetime* warranty on all models			

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









Specifications

	FORTISWITCH 1048E	FORTISWITCH 2048F	FORTISWITCH 3032E
Hardware Specifications			
Total Network Interfaces	48×10G/1G SFP+/SFP ports and 6×40G QSFP+ ports or 4×100G/40G QSFP28/QSFP+ ports	48× 25G/10G/1G SFP28/SFP+/SFP ports and 2× 10G/1G SFP+/SFP ports and 8× 100G/40G QSFP28/QSFP+ ports	32×100G/40G QSFP28/QSFP+ ports
0/100/1000 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) *	1760 Gbps	4000 Gbps	6400 Gbps
Packets Per Second (Duplex) 64 bytes	1518 Mpps	4000 Mpps	5952 Mpps
Mac Address Storage	144 K	96k	72 K
Network Latency	< 800 ns	< 1 µs	< 1 µs
/LANs Supported	4 K	4k	4 K
Pv4/IPv6 Routing	\odot	\odot	\odot
ink Aggregation Group Size	Up to 48	Up to 48	Up to number of ports
Total 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	12 MB	32 MB	16 MB
Memory 8GB DDR3		8GB DDR4	8BG DDR3
Flash	128MB NOR	8GB NAND	128MB NOR
Drive	128GB SSD	32GB SSD	128GB SSD
Dimensions			
Height x Depth x Width (inches)	1.69 × 18.11 × 17.26	1.71 × 18.11 × 17.26	1.69 × 18.11 × 17.26
Height x Depth x Width (mm)	43 × 460 × 438.5	43.5 × 460 × 438.5	43 × 460 × 438.5
Veight	18.96 lbs (8.6 kg)	21.78 lbs (9.88 kg)	19.34 lbs (8.77 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 181.7 W	175,7 W	up to 463.8 W
Power Supply	Dual hot swappable AC	Dual hot swappable AC	Dual hot swappable AC
Heat Dissipation	620.4 BTU/h	406 BTU/h	1582.5 BTU/h
Operating Temperature	32°F to 113°F (0°C to 45°C)	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)	-13°F to 158°F (-25°C to 70°C)	-4°F to 158°F (-20°C to 70°C)
lumidity	10% to 90% RH non-condensing	10% to 90% RH non-condensing	10% to 90% RH non-condensing
Air Flow	Front to back	Front to back	Front to back
Noise Level	59 dBA	69.36 dBA	69.1 dBA
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
Certification and Compliance			
		FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
Warranty			
Fortinet Warranty		Limited lifetime** warranty on all models	

* Full line rate with minimum packet size of 427 bytes on FS-1048E, 250 bytes on FS-3032E, and 110 bytes on FS-2048F when 2×10G ports are not in use

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





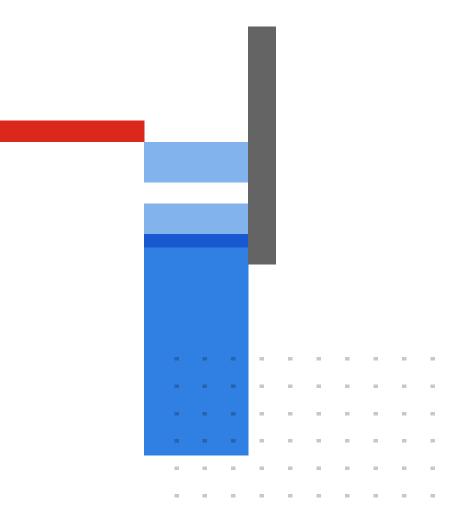
Ordering Information

Product	SKU	Description
FortiSwitch 1024E	FS-1024E	Layer 2/3 FortiGate switch controller compatible switch with 24x 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 × 100GE QSFP28. Dual AC power supplies.
FortiSwitch T1024F-FPOE	FS-T1024F-FPOE	Layer 2/3 FortiGate switch controller compatible PoE 802.3bt switch with 24 \times 10G/5G/2.5G/1G RJ45 and 2 \times 100GE QSFP28 ports. Max 1440W PoE output limit. 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.
FortiSwitch 2048F	FS-2048F	Layer 2/3 FortiGate switch controller compatible switch with 48× 25G SFP28 + 8× 100G QSFP28 + $2\times$ 10G SFP+. Dual AC power supplies.
FortiEdge Cloud Management License	FC-10-FSW30-628-02-DD	FortiSwitch 1000 Series and above FortiEdge Cloud Management SKU Including FortiCare Premium (Note, FortiCare only applicable when used with FortiEdge 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-2000	SW License for FS-2000 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 (power cord not included).
	FS-PSU-800	Spare AC power supply for FS-3032E (power cord not included).
	FS-PSU-300	Spare AC power supply for FS-1024E and FS-T1024E (power cord not included).
	FS-2048-PSU-650	Spare AC power supply for FS-2048F (power cord not included).

 $^{*\} When\ managing\ a\ FortiSwitch\ with\ a\ FortiGate\ via\ FortiGate\ Cloud,\ no\ additional\ license\ is\ necessary.$

For details of Transceiver modules, see the $\underline{\text{Fortinet Transceivers datasheet}}.$









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