

PROPUESTA TECNICA

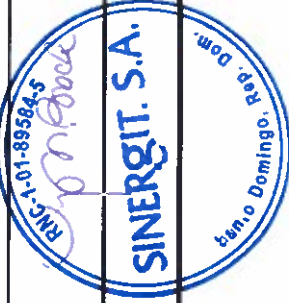
SOLICITADO	PROPUESTO
<p>Switch manejable 24 puertos 10/100/1000</p>	<p>Switch Fortinet 124F 24 puertos GE</p> <p>Características técnicas</p> <ul style="list-style-type: none">- 24x GE RJ45- 4x 10GE SFP+- 1 RJ/45 Serial Console Port- 1 RU Rack Mount- Switching capacity (Duplex) 128 Gbps- Packets per Second (Duplex) 190 Mbps- DRAM 512MB DDR3- FLASH 64 MB



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**JUNTA CENTRAL ELECTORAL
OFERTA TECNICA**

Item	Descripción	Unidad de Medida	Cantidad
1	FortiSwitch-124F is a performance/price competitive switch with 24x GE port + 4x SFP+ port + 1x RJ45 console. Fanless design.	UND	10
2	Patch Panel 24 Puerto CAT-6 LANPRO 90 GRADOS	UND	10
3	Lanpro Jack Modular CAT-6 Azul	UND	483
4	Panduit NetKey Cable UTP CAT-6 CM AZUL	UND	17
6	Lanpro Patch Cord Cat-6 2M Azul 28awg	UND	443
7	Lanpro Conector RJ45 Cat-6 23-26AWG SOLID WIRED CONDUCTOR	UND	1000



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Certificado de Revendedor Autorizado

Fecha: October 12, 2021

Estimados Clientes de Junta Central Electoral:

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Sinergit, S.A.

con domicilio social en:

Sinergit, S.A. Torre Cristal, 4to. Piso, Avenida Tiradentes esq. Carlos Sanchez, Naco, Santo Domingo, 000000, Dominican Republic;

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- Nivel de contrato: Select
- Modelo de negocio: Integrator

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Samantha Symonds

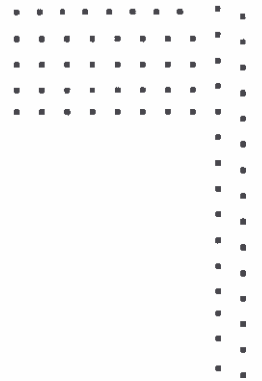
La confirmación del fabricante

Vicepresidente Legal y de Compliance, Americas

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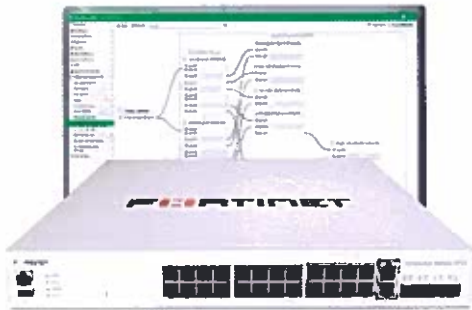
DATA SHEET

FortiSwitch™ Secure Access

Available in:



Appliance



Security, Performance, and Manageability

The FortiSwitch™ Secure Access Family delivers outstanding security, performance, and manageability. Secure, simple, and scalable, FortiSwitch is the right choice for threat-conscious businesses of all sizes.

Tightly integrated into the Fortinet Security Fabric via FortiLink, FortiSwitch can be managed directly from the familiar FortiGate interface. This single pane of glass management provides complete visibility and control of users and devices on the network regardless of how they connect. This makes the FortiSwitch ideal for SD-Branch deployments with applications that range from desktop to data center aggregation, enabling businesses to converge their security and network access.

Security Fabric Integration through FortiLinfi

FortiLink is an innovative proprietary management protocol that allows our FortiGate Next Generation Firewall 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. This management option reduces complexity and decreases management costs as network security and access layer functions are enabled and managed through a single console. FortiLink integration enables centralized policy management, including role-based access and control, making it easy to implement and manage. This control and manageability make FortiSwitch ideal for SD-Branch deployments.



HIGHLIGHTS

Entry

100 Series

- Entry level switch
- 8-48 GE ports, PoE+ capable
- Desktop to wiring closet
- 2-4 GE SFP uplink ports
- 4x 10GE SFP+ uplink ports

Mid-Range

200 Series

- Mid-level switch
- 24-48 GE ports, PoE+ capable
- Typical wiring closet switch
- 4 GE SFP uplink ports

Premium

400 Series

- Enterprise switch
- 24-48 GE ports, PoE+ capable
- Larger wiring closet or high throughput requirements
- 4x 10 GE SFP+ uplink ports

Aggregation

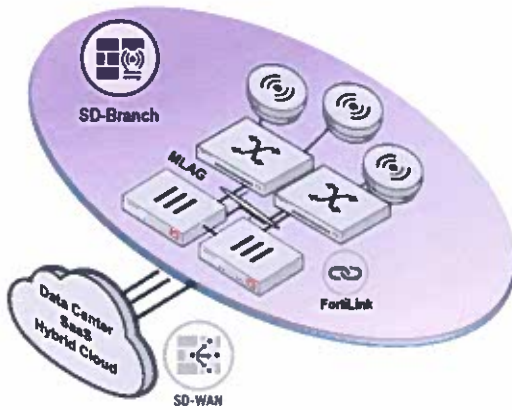
500 Series

- Aggregation switch
- 24-48 GE ports, PoE+ capable
- Larger wiring closet or high throughput requirements
- 4x 10 GE SFP+ and 2x 40 GE QSFP uplink ports

DEPLOYMENT

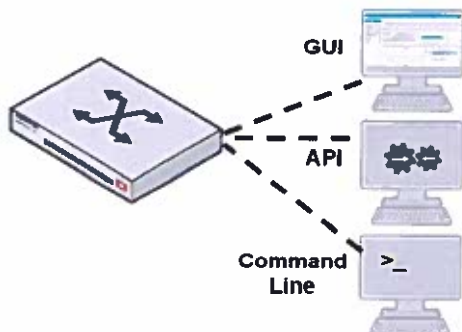
FortiLinfi

- FortiGate managed
- Security Fabric enabled
- Most common deployment model

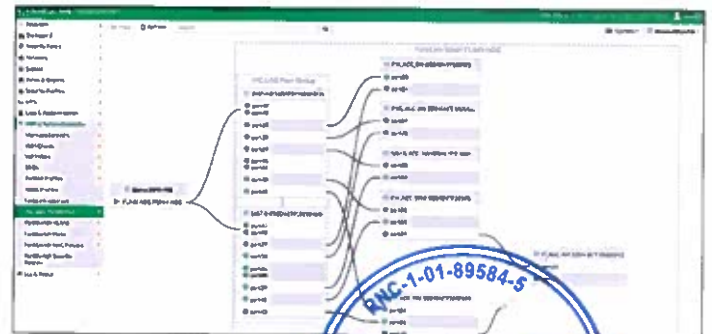


Standalone

- Industry standard deployment model
- Common in non-FortiGate environments



Cloud Management Option



Cloud Management Option



PRODUCT OFFERINGS

Model Numbers

FS-108E, 108E-POE, 108E-FPOE, 124E, 124E-POE, 124E-FPOE, 148E, 148E-POE, 124F, 124F-POE, 124F-FPOE, 148F, 148F-POE, 148F-FPOE, 224D-FPOE, 224E, 224E-POE, 248D, 248E-POE, 248E-FPOE, 424D, 424D-POE, 424D-FPOE, 448D, 448D-POE, 448D-FPOE, 424E-FIBER, M426E-FPOE, 424E, 424E-POE, 424E-FPOE, 448E, 448E-POE, 448E-FPOE, 524-D, 524D-FPOE, 548D, 548D-FPOE

FEATURES

FORTISWITCH FORTILINK MODE (WITH FORTIGATE)	
Management and Configuration	
Auto Discovery of Multiple Switches	Yes
Number of Managed Switches per FortiGate	8 to 300 Depending on FortiGate Model (Please refer to admin guide)
FortiLink Stacking (Auto Inter-Switch Links)	Yes
Software Upgrade of Switches	Yes
Centralized VLAN Configuration	Yes
Switch POE Control	Yes
Link Aggregation Configuration	Yes
Spanning Tree	Yes
LLDP/MED	Yes
IGMP Snooping	Yes
L3 Routing and Services	Yes (FortiGate)
Policy-Based Routing	Yes (FortiGate)
Virtual Domain	Yes (FortiGate)
Security and Visibility	
802.1x Authentication (Port-based, MAC-based, MAB)	Yes
Syslog Collection	Yes
DHCP Snooping	Yes
Device Detection	Yes
MAC Black/White Listing	Yes (FortiGate)
Policy Control of Users and Devices	Yes (FortiGate)
Block Intra-VLAN Traffic	Yes
UTM Features	
Firewall	Yes (FortiGate)
IPC, AV, Application Control, Botnet	Yes (FortiGate)
High Availability	
Support FortiLink FortiGate in HA Cluster	Yes
LAG support for FortiLink Connection	Yes
Active-Active Split LAG from FortiGate to FortiSwitches for Advanced Redundancy	Yes (with FS-2xx, 4xx, 5xx)



JB

FEATURES

FORTISWITCH MODEL SERIES	2XXD, 4XXD, 5XXD	1XXE / 1XXF	2XXE, 4XXE
Layer 2			
Jumbo Frames	Yes	Yes	Yes
Auto-negotiation for Port Speed and Duplex	Yes	Yes	Yes
MDI/MDIX Auto-crossover	Yes	Yes	Yes
IEEE 802.1D MAC Bridging/STP	Yes	Yes	Yes
IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)	Yes	Yes	Yes
IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)	Yes	Yes	Yes
STP Root Guard	Yes	Yes	Yes
STP BPDU Guard	Yes	Yes	Yes
Edge Port / Port Fast	Yes	Yes	Yes
IEEE 802.1Q VLAN Tagging	Yes	Yes	Yes
Private VLAN	Yes	No	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
Spanning Tree Instances (MSTP/CST)	15/1	15/1	15/1
IEEE 802.3x Flow Control and Back-pressure	Yes	Yes	Yes
IEEE 802.3 10Base-T	Yes	Yes	Yes
IEEE 802.3u 100Base-TX	Yes	Yes	Yes
IEEE 802.3z 1000Base-SX/LX	Yes	Yes	Yes
IEEE 802.3ab 1000Base-T	Yes	Yes	Yes
IEEE 802.3ae 10 Gigabit Ethernet	4xx and 5xx Family	N/A / Yes	Yes
IEEE 802.3az Energy Efficient Ethernet	Yes	Yes	Yes
IEEE 802.3bz Multi Gigabit Ethernet	No	No	Yes (M426E-FPOE)
IEEE 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	No	Yes
Split Port (QSFP+ breakout to 4x10G SFP+ or 4x1G SFP)	FS-5xx Family	N/A	N/A
Time-Domain Reflectometry (TDR) Support	Yes	Yes	Yes



FEATURES

FORTISWITCH MODEL SERIES	2XXD, 4XXD, 5XXD	1XXE / 1XXF	2XXE, 4XXE
Layer 3*			
Static Routing (Hardware-based)	Yes	N/A**	Yes
Routing Entries	64 on FS-2xx, 4xx Family; 16K on FS-5xx Family	N/A	64 on 2xxE 1K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber
Host Entries	1K on FS-2xx, 4xx Family; 24K on FS-5xx Family	N/A	1K on 2xxE 2K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 16K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber
Dynamic Routing Protocols***	OSPFv2, RIPv2, VRRP; BGP, ISIS on FS-5xx	N/A	OSPFv2, RIPv2, VRRP
Multicast Protocols***	PIM-SSM on FS-5xx	N/A	N/A
ECMP	FS-5xx Family	N/A	No
Spanning Tree Instances	32 instances max for FS-5xx from 6.2.0+	N/A	N/A



Bidirectional Forwarding Detection (BFD)	Yes	N/A	Yes
DHCP Relay	Yes	Yes	Yes
Services			
IGMP Snooping	Yes	Yes	Yes
Security and Visibility			
Port Mirroring	Yes	Yes	Yes
Admin Authentication Via RFC 2865 RADIUS	Yes	Yes	Yes
IEEE 802.1x authentication Port-based	Yes	Yes	Yes
IEEE 802.1x Authentication MAC-based	Yes	Yes	Yes
IEEE 802.1x Guest and Fallback VLAN	Yes	Yes	Yes
IEEE 802.1x MAC Access Bypass (MAB)	Yes	Yes	Yes
IEEE 802.1x Dynamic VLAN Assignment	Yes	Yes	Yes
Radius CoA (Change of Authority)	Yes	Yes	Yes
Radius Accounting	Yes	Yes	Yes
MAC-IP Binding	5xx only	No	No
sFlow	Yes	No	Yes
ACL	1K entries on FS-5xx Family 512 on 2xx, 4xx Families	640 for 1xxE 768 for 1xxF	512 entries on 2xxE 1K on 424E, 424E-POE, 424E-FPOE, M426E-FPOE 1.5K on 448E, 448E-POE, 448E-FPOE, 424E-Fiber
IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	Yes	Yes	Yes
IEEE 802.1ab LLDP-MED	Yes	Yes	Yes
IEEE 802.1ae MAC Security (MAC Sec)	FS-5xxD 10G ports	No	No
DHCP-Snooping	Yes	Yes	Yes
Dynamic ARP Inspection	Yes	Yes	Yes
Sticky MAC and MAC Limit	Yes	Yes	Yes

* Supported on 2xx, 4xx, and 5xx.

**Supported in software only.

***Requires 'Advanced Features' License.



FEATURES

FORTISWITCH MODEL SERIES	2XXD, 4XXD, 5XXD	1XXE / 1XXF	2XXE, 4XXE
High Availability			
Multi-Chassis Link Aggregation (MCLAG)	Yes	N/A	Yes
Quality of Service			
IEEE 802.1p Based Priority Queuing	Yes	Yes	Yes
IP TOS/DSCP Based Priority Queuing	Yes	Yes	Yes
IEEE 1588 PTP (Transparent Clock)	Yes	No	Yes
Management			
IPv4 and IPv6 Management	Yes	Yes	Yes
Telnet / SSH	Yes	Yes	Yes
HTTP / HTTPS	Yes	Yes	Yes
SNMP v1/v2c/v3	Yes	Yes	Yes
SNTP	Yes	Yes	Yes
Standard CLI and Web GUI Interface	Yes	Yes	Yes
Software download/upload: TFTP/FTP/GUI	Yes	Yes	Yes
Managed from FortiGate	Yes	Yes	Yes
Support for HTTP REST APIs for Configuration and Monitoring	Yes	Yes	Yes

* Supported on 2xx, 4xx, and 5xx.
 **Supported in software only.
 ***Requires 'Advanced Features' License.



FEATURES

ALL FORTISWITCH MODELS

RFC and MIB Support*

BFD

- 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
- RFC 7705: Autonomous System Migration Mechanisms and Their Effects on the BGP AS_PATH 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 3168: The Addition of Explicit Congestion Notification (ECN) to IP
- RFC 5227: IPv4 Address Conflict Detection
- RFC 5517: Cisco Systems' Private VLANs: Scalable Security in a Multi-Client Environment
- RFC 7039: Source Address Validation Improvement (SAVI) Framework

IP Multicast

- RFC 2362: Protocol Independent Multicast-Sparse Mode (PIM-SM): Protocol Specification
- RFC 2710: Multicast Listener Discovery (MLD) for IPv6 (MLDv1)
- 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")
- RFC 4607: Source-Specific Multicast for IP

IPv6

- 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)
- RFC 2893: Transition Mechanisms for IPv6 Hosts and Routers
- RFC 4213: Basic Transition Mechanisms for IPv6 Hosts and Router
- RFC 4291: IP Version 6 Addressing Architecture
- RFC 4443: Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification
- RFC 4861: Neighbor Discovery for IP version 6 (IPv6)
- RFC 4862: IPv6 Stateless Address Auto configuration
- RFC 5095: Deprecation of Type 0 Routing Headers in IPv6
- RFC 6724: Default Address Selection for Internet Protocol version 6 (IPv6)
- RFC 7113: IPv6 RA Guard
- RFC 8200: Internet Protocol, Version 6 (IPv6) Specification
- RFC 8201: Path MTU Discovery for IP version 6

IS-IS

- RFC 1195: Use of OSI IS-IS for Routing in TCP/IP and Dual Environments
- RFC 5308: Routing IPv6 with IS-IS

MIB

- RFC 1213: MIB II parts that apply to FortiSwitch 100 units
- RFC 1354: IP Forwarding Table MIB
- RFC 1493: Bridge MIB
- RFC 1573: SNMP MIB II
- RFC 1643: Ethernet-like Interface MIB



* RFC and MIB supported by FortiSwitch Operating System. Check feature matrix in administration guide for model specific support.

FEATURES

ALL FORTISWITCH MODELS

RFC AND MIB Support*

MIB

RFC 1724: RIPv2-MIB

RFC 1850: OSPF Version 2 Management Information Base

RFC 2233: The Interfaces Group MIB using SMIPv2

RFC 2618: Radius-Auth-Client-MIB

RFC 2620: Radius-Acc-Client-MIB

RFC 2674: Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN extensions

RFC 2787: Definitions of Managed Objects for the Virtual Router Redundancy Protocol

RFC 2819: Remote Network Monitoring Management Information Base

RFC 2932: IPv4 Multicast Routing MIB

RFC 2934: Protocol Independent Multicast MIB for IPv4

RFC 3289: Management Information Base for the Differentiated Services Architecture

RFC 3433: Entity Sensor Management Information Base

RFC 3621: Power Ethernet MIB

RFC 6933: Entity MIB (Version 4)

OSPF

RFC 1583: OSPF version 2

RFC 1765: OSPF Database Overflow

RFC 2328: OSPF version 2

RFC 2370: The OSPF Opaque LSA Option

RFC 2740: OSPF for IPv6

RFC 3101: The OSPF Not-So-Stubby Area (NSSA) Option

RFC 3137: OSPF Stub Router Advertisement

RFC 3623: OSPF Graceful Restart

RFC 5340: OSPF for IPv6 (OSPFv3)

RFC 5709: OSPFv2 HMAC-SHA Cryptographic Authentication

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

OTHER

RFC 2030: SNMP

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)

RADIUS

RFC 2865: Admin Authentication Using RADIUS

RFC 2866: RADIUS Accounting

RFC 5176: Dynamic Authorization Extensions to Remote Authentication Dial In User Service (RADIUS)

RIP

RFC 1058: Routing Information Protocol

RFC 2080: RIPng for IPv6

RFC 2082: RIP-2 MD5 Authentication

RFC 2453: RIPv2

RFC 4822: RIPv2 Cryptographic Authentication

SNMP

RFC 1157: SNMPv1/v2c

RFC 2571: Architecture for Describing SNMP

RFC 2572: SNMP Message Processing and Dispatching


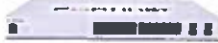

RFC 2573: SNMP Applications

RFC 2576: Coexistence between SNMP versions



* RFC and MIB supported by FortiSwitch Operating System. Check feature matrix in administration guide for model specific support.

SPECIFICATIONS

	 FORTISWITCH 124F	 FORTISWITCH 124F-POE	 FORTISWITCH 124F-FPOE
Hardware Specifications			
Total Network Interfaces	24x GE RJ45 and 4x 10GE SFP+	24x GE RJ45 and 4x 10GE SFP+	24x GE RJ45 and 4x 10GE SFP+
Dedicated Management 10/100 Port	0	0	0
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	0	12 (802.3af/at)	24 (802.3af/at)
PoE Power Budget	0	185 W	370 W
Mean Time Between Failures	> 10 years	> 10 years	> 10 years
System Specifications			
Switching Capacity (Duplex)	128 Gbps	128 Gbps	128 Gbps
Packets Per Second (Duplex)	190 Mpps	190 Mpps	190 Mpps
MAC Address Storage	32 K	32 K	32 K
Network Latency	< 1µs	< 1µs	< 1µs
VLANs Supported	4 K	4 K	4 K
Link Aggregation Group Size	8	8	8
Total Link Aggregation Groups	16	16	16
Packet Buffers	2 MB	2 MB	2 MB
DRAM	512 MB DDR3	512 MB DDR3	512 MB DDR3
FLASH	64 MB	64 MB	64 MB
Dimensions			
Height x Depth x Width (inches)	1.73 x 9.06 x 12.99	1.73 x 10.24 x 17.32	1.73 x 10.24 x 17.32
Height x Depth x Width (mm)	44 x 230 x 330	44 x 260 x 440	44 x 260 x 440
Weight	4.48 lbs (2.03 kg)	7.85 lbs (3.56 kg)	8.42 lbs (3.82 kg)
Environment			
Power Required	100–240V AC, 50-60 Hz	100–240V AC, 50-60 Hz	100–240V AC, 50-60 Hz
Power Supply	AC built in	AC built in	AC built in
Redundant Power	No	No	No
Power Consumption* (Average / Maximum)	24.8 W / 26.3 W	235.9 W / 237.4 W	449.8 W / 451.3 W
Heat Dissipation	89.683 BTU/h	102.982 BTU/h	118.327 BTU/h
Operating Temperature	32–113°F (0–45°C)	32–113°F (0–45°C)	32–113°F (0–45°C)
Storage Temperature	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)	-4–158°F (-20–70°C)
Humidity	10–90% non-condensing	10–90% non-condensing	10–90% non-condensing
Air-Flow Direction	side-to-back	side-to-back	side-to-back
Certification and Compliance			
	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2		
Warranty			
	Limited lifetime** warranty on all models		

