Key 5000 Series Features

Future-Ready
1/2.5/5Gb multi-gig access along with 30W/60W/90W always-on PoE provides seamless support for WiFi-6 and next-gen IoT devices

Cloud-Managed
Simplified operations and management, including operating system (OS) selection and license activation, via ExtremeCloud™ IQ

Fabric to the Edge
Full Fabric Connect services extends automation and hyper-segmentation to the edge of your network*

End-to-End Security
256-bit MACsec link encryption on access ports, as well as uplinks, ensures the highest level of security

Superior Performance
High-speed uplinks including 25Gb, 40Gb, and 50Gb port options, to address high-bandwidth demands

Flexible Universal Hardware
User-selectable operating system allows multiple use cases without hardware replacement

1-Year ExtremeCloud IQ Pilot Subscription
Every 5000 Series switch includes a 1-year free subscription to advanced ExtremeCloud IQ Pilot services

* Available with Fabric Engine operating system

Unlock Your Network Potential with 5000 Series Switches

The ExtremeSwitching 5000 Series are Extreme's cloud-ready, universal switch platforms designed for wiring closet and network edge environments. They are purpose-built for future-ready services, with superior performance and functionality over earlier generation Extreme switching hardware.

As universal hardware platforms, the 5000 Series offer a user-selectable choice of Extreme's flagship operating systems allowing flexible deployment of different feature sets/use cases. Supporting either the Switch Engine (Switch Engine) or Fabric Engine (Fabric Engine), the 5000 Series OS/feature set can be selected at start-up or changed at a later stage based on desired use case, maximizing your investment by avoiding hardware replacement.

Consisting of 5320, 5420, and 5520 Series families, the 5000 Series supports ExtremeCloud IQ-based management and automation services that simplify network operations. Cloud-based OS selection as well as license activation make 5000 Series onboarding easy along with switch licenses that can be pooled and easily transferred between devices.

Each 5000 Series switch also includes a 1-year ExtremeCloud IQ Pilot subscription entitling users to advanced management services at no additional cost. This makes the 5000 Series together with ExtremeCloud IQ a uniquely powerful solution that delivers a more scalable, distributed, and user friendly experience in support of the infinite enterprise.

Benefits of the 5320 Series vs. ERS 3600 and X440-G2 Series Switches

	Feature	Installed Base Switches		5320 Series	Benefit
		ERS 3600	X440-G2		
Platform Capabilities/ Scale	OS Selection (Switch Engine / Fabric Engine)	-	-	✓	Flexible deployment options
	Switch Capacity	Up to 188Gb	Up to 176Gb	Up to 256Gb	Greater switch throughput
	Stack Bandwidth	40Gb/switch 8-unit stacking	40Gb/switch 8-unit stacking	40Gb/switch 8-unit stacking	
	Uplink Ports	4 x 1/10Gb[1]	4 x 1/10Gb	4 x 1/10Gb (16-port models) 8 x 1/10Gb (24 and 48-port models)	Greater number of uplink ports
	Stacking Ports	2 x 10Gb	2 x 10Gb	2 x 10Gb[2] (Switch Engine only)	
	PoE Power	30W port Up to 720W	30W port Up to 740W	30W port Up to 740W	Improved PoE availability
	Always-on PoE (Fast/ Perpetual)	-	-	✓	
	Role-Based Policy	-	✓ Up to 440 rules	✓ Up to 1,976 rules	Unified policy with scale
	Deployment model	Access	Access	Access	
Cloud Management	ExtremeCloud IQ (XIQ) managed	-	✓ [3]	✓	Simplified management and advanced visibility
	OS Selection from XIQ	-	-	✓	
	Switch license activation and transfer via XIQ	-	-	✓	
	1-year XIQ Pilot Subscription Included	-	-	✓	
Fabric/ Segmentation	Fabric Attach	✓	✓	✓	Fabric services and segmentation to the edge
	Fabric Connect	-	-	✓[4] (Fabric Engine)	
	Fabric Extend	-	-	✓ (Fabric Engine)	
	Hyper-segmentation (Fabric Connect)	-	-	✓ (Fabric Engine)	
	IP Fabric/EVPN	-	-	✓ (Switch Engine)	
Security	MACsec link level encryption	-	-	✓	256-bit MACsec on both access and uplink ports
Advanced Services	sFlow/Application Telemetry	-	✓	✓	Application-level Analytics via XIQ-SE/Visualization in XIQ
	Audio-Video Bridging (AVB)	-	✓	✓ (Switch Engine)	Synchronized transmission of multimedia traffic
Warranty	Limited Lifetime Warranty (LLW) Policy	LLW-2	LLW-2	Universal LLW	Access to all publicly available software updates and upgrades

[1] The ERS 3600 uses its two stacking ports for 4 x 10Gb uplinks

[2] The 5320 uses two of its uplink ports for stacking

[3] Only some X440-G2 models natively supported by ExtremeCloud IQ

[4] 5320 16 and 24-port models are limited to a single VRF/L3 VSN.

Benefits of the 5420 Series vs. ERS 4900 and X450-G2 Series Switches

| | Feature | Installed Base Switches | | 5420 Series | Benefit |
		ERS 4900	X450-G2		
Platform Capabilities/ Scale	OS Selection (Switch Engine or Fabric Engine)	-	-	✓	Flexible deployment options
	Switch Capacity	Up to 188Gb	Up to 260Gb	Up to 424Gb	Greater Throughput
	Stack Bandwidth	52Gb/switch 8-unit stacking	80Gb/switch 8-unit stacking	80Gb/switch 8-unit stacking	
	Uplink Ports	2 x 1/10Gb	4 x 1/10Gb	4 x 1/10Gb (5420F) 4 x 1/10/25Gb (5420M)	Enhanced Uplink speeds
	Universal/Stacking Ports[1]	2 x 13Gb (stacking only)	2 x 20Gb (stacking only)	Stacking: 2 x 20Gb 2 x 10Gb (5420F): 2 x 20Gb/4 x 10Gb (5420M)	Additional uplink port options when using switch in standalone mode
	Multi-rate technology	-	-	1Gb/2.5Gb	2.5 Gb options
	PoE Power	30W port Up to 1440W	30W port Up to 1440W	30/60/90W port Up to 3568W	Greater PoE power and resilience
	Always-on PoE (Fast/Perpetual)	-	-	✓	
	Role-Based Policy	-	✓ Up to 1,976 rules	✓ Up to 4,024 rules (5420F) Up to 8,120 rules (5420M) (Switch Engine)	Unified policy with scale
	Deployment model	Access	Access	Access/Aggregation	1Gb and multi-rate models along with 1Gb fiber aggregation model
	24 x 1Gb SFP model	-	-	✓	
	Hot Swappable Fans and Power Supplies	✓	✓	✓	
Cloud Management	ExtremeCloud IQ (XIQ) managed	-	✓[3]	✓	Simplified management and advanced visibility
	OS Selection from XIQ	-	-	✓	
	Switch license activation and transfer via XIQ	-	-	✓	
	1-year XIQ Pilot Subscription Included	-	-	✓	
Fabric/ Segmentation	Fabric Attach	✓	✓	✓	Full-featured fabric services and segmentation to the edge
	Fabric Connect	L2 VSN only	-	✓ (Fabric Engine)	
	Fabric Extend	-	-	✓ (Fabric Engine)	
	Hyper-segmentation (Fabric Connect)	-	-	✓ (Fabric Engine)	
	IP Fabric/EVPN	-	-	✓ (Switch Engine)	
Security	MACsec link level encryption	-	-	✓	256-bit MACsec on both access and uplink ports[2]
	Secure Boot-Ready	-	-	✓	Highest security
Advanced Services	Extended Edge Switching (Controller Bridge)	-	-	✓ (Switch Engine)	Aggregate V300/ V400 devices
	sFlow/Application Telemetry	-	✓	✓	Application-level Analytics via XIQ-SE/Visualization in XIQ
	Audio-Video Bridging (AVB)	-	✓	✓ (Switch Engine)	Synchronized transmission of multimedia traffic
Warranty	Limited Lifetime Warranty (LLW) Policy	LLW-2	LLW-2	Universal LLW	Access to all publicly available software updates and upgrades

[1] Universal/Stacking ports can be used as uplinks on the 5420 Series when not stacking with Switch Engine or in non-Fabric mode with Fabric Engine

[2] Up to 50Gb aggregate throughput/available in a future release

[3] Only some X450-G2 models natively supported by ExtremeCloud IQ

Benefits of the 5520 Series vs. ERS 5900 and X460-G2 Series Switches

	Feature	Installed Base Switches		5520 Series	Benefit
		ERS 5900	X460-G2		
Platform Capabilities/ Scale	OS Selection (Switch Engine or Fabric Engine)	-	-	✓	Flexible deployment options
	Switch Capacity	Up to 356Gb	Up to 384Gb	Up to 1080Gb	Greater Throughput
	Stack Bandwidth	84Gb/switch 8-unit stacking	160Gb/switch 8-unit stacking	200Gb[1]/switch 8-unit stacking	
	Uplinks Ports	4 x 1/10Gb (built-in)	4 x 1/10Gb (built-in)	4 x 1/10Gb (VIM) 4 x 25Gb (VIM)	Enhanced Uplink speeds
	Universal/ Stacking ports[1]	2 x 21Gb (stacking only)	2 x 40Gb (stacking only)	Stacking: 2 x 40Gb Uplinks: 2 x 40Gb, 8 x 10Gb[2] 8 x 25Gb[2], 2 x 50Gb[2]	Additional uplink options when switch is in standalone mode
	Multi-rate technology	1Gb/2.5Gb	1Gb/2.5Gb	1Gb/2.5Gb/5Gb	5Gb options
	PoE Power	30/60W port up to 2880W	30W port up to 1440w	30/60/90W port Up to 3568W	Greater PoE power and resilience
	Always-on PoE (Fast/ Perpetual)	-	-	✓	
	Role-Based Policy	-	✓ Up to 1,976 rules	✓ Up to 8,120 rules (Switch Engine)	Unified policy with scale
	Deployment model	Access	Access	Access/Aggregation	10Gb model and Extended Edge
	24 x 10Gb SFP+ model	-	-	✓	
	Hot Swappable Fans and Power Supplies	✓	✓	✓	
Cloud Management	ExtremeCloud IQ (XIQ) managed	-	✓[3]	✓	Simplified management and advanced visibility
	OS Selection from XIQ	-	-	✓	
	Switch license activation and transfer via XIQ	-	-	✓	
	1-year XIQ Pilot Subscription Included	-	-	✓	
Fabric/ Segmentation	Fabric Attach	✓	✓	✓	Full-featured fabric services and segmentation to the edge
	Fabric Connect	L2 VSN only	-	✓ (Fabric Engine)	
	Fabric Extend	-	-	(Fabric Engine)	
	Hyper-segmentation (Fabric Connect)	-	-	✓ (Fabric Engine)	
	IP Fabric/EVPN	-	-	✓ (Switch Engine)	
Security	MACsec link level encryption	-	-	✓	256-bit MACsec on both access and uplink ports
	Secure Boot-ready	-	-	✓	Highest security
Advanced Services	Extended Edge Switching (Controller Bridge)	-	-	✓ (Switch Engine)	Aggregate V300/V400 devices
	sFlow/Application Telemetry	-	✓	✓	Application-level Analytics with XIQ-SE/Visualization with XIQ
	Audio-Video Bridging (AVB)	-	✓	✓ (Switch Engine)	Synchronized transmission of multimedia traffic
Warranty	Limited Lifetime Warranty (LLW) Policy	LLW-2	LLW-2	Universal LLW	Access to all publicly available software updates and upgrades

[1] Universal/Stacking ports can be used as uplinks when not stacking with Switch Engine or in non-Fabric mode with Fabric Engine

[2] Via channelization/2 x 50Gb available with Switch Engine only

[3] Only some X460-G2 models natively supported by ExtremeCloud IQ

Additional Services to Ease Your 5000 Series Upgrade

Network Migration Services

Extreme offers industry-leading global [Professional Services](#) for network design, installation and enablement services. Work with our team of Extreme experts and partners that have in-depth technical know-how to accelerate and simplify your migration to the 5000 Series.

Customer First Support

Extreme [Maintenance and Support services](#) with 100% in-sourced engineering experts and over 90% first-person resolution ensure the efficient operation of network. 24x7x365 phone support, advanced parts replacement, and on-site support can help augment your staff with experienced resources to help you mitigate critical network issues fast.

Finance Your 5000 Series Switch with Extreme Capital Solutions

Let financing from Extreme make migrating your switches and accelerating your business transition even easier [Extreme Capital Solutions](#) makes this transition as easy as possible, with 100% technology financing, predictable monthly payments and [Network-As-A-Service](#) subscription options.

For more information on the Extreme Networks 5320, 5420, and 5520 Series switches, please visit:

https://www.extremenetworks.com/product/5320-series/

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