

CLOUD NETWORKING PORTFOLIO

Arista Networks is the leader in building scalable high-performance and ultra-low latency networks for today's data center and cloud computing environments. Purpose-built hardware and Arista EOS™, the world's most advanced network operating system, provide single-binary system images across all platforms, maximum system uptime, stateful fault repair, Zero Touch Provisioning, Latency Analysis, and a fully accessible Linux shell. Arista Ethernet switches are the perfect network solution for your most demanding workloads. With native support for VMware Virtualization and hundreds of Linux applications integrated into hardware platforms designed to meet the stringent power and cooling requirements of today's most demanding data centers, Arista delivers the most energy efficient and best performing 10Gb Ethernet platforms.

EOS PRODUCT DIFFERENTIATION

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Details	MLAG	LANZ	ZTP	VM Tracer	Cloud Vision	AEM
Problem Trying to Solve	 Eliminate spanning tree loops Virtual machine mobility	Track latency, congestion, and packet loss	Reduce mean-time-to-deployment and mean-time-to-restoration	VM visibility, provisioning, and multi tenancy	Manage at scaleSimplify daily network operations	Automated reaction to events in the network
Current Solutions	Spanning treeFlex connectVPCVSS	SNMP SPAN monitoring Expensive sniffers	Manual processes	None	None	Manual reaction to events
Limitations of Current Solutions	 STP: redundant link is in standby mode to prevent loops, wasting bandwidth Complex to operate and troubleshoot 	Low granularityExpensiveSlow and reactive	ExpensiveTime consumingError prone	No network visibility into VMs No network provisioning based on vMotion	 Proprietary fabrics lock customers into one vendor High operational costs 	 Reactive notification <i>after</i> event occurs Tiered escalation in data center
Arista Solution (Product Differentiation)	 Doubles effective bandwidth Fast convergence Simplifies design Enables in-service software upgrades 	 Identify network latency BEFORE drops occur Proactive notification Real-time queue depth analysis and streaming 	 Automated switch provisioning Full customization with open tools Automated zero touch replacement 	 Detailed visibility to vSwitch, ESX host, VMs Auto provision VLANs based on best practice Support for multiple vCenter domains 	 Open standards Global port profiles Single CLI for multiple functions and devices Virtual EOS emulation 	Automate actions based on events: Event Handler Event Monitor CLI Scheduler Linux Tools
Impact to End User	▲ Network scalability ▲ Network resiliency Zero downtime for network changes	▲ Visibility into network congestion and app 'slowness'	 ▼ Network deployment time ▼ Human error ▼ Maintenance window duration 	▼ Complexity for server/network configuration Smarter provisioning and easier troubleshooting	 ▼ Network touch points ▼ Complexity of multi-device operations 	▲ Predictive fault management ▲ Network availability
Financial Impact	 ▲ Port utilization ▲ Application performance ▼ Network cost with fewer uplinks 	▲ Improving service delivery in ITIL model	▼ Cost of deployment ▲ Time to market for new service	 ▼ Operational costs – time and manpower ▼ Capital costs – choice of VM switch 	 ▼ Operational costs to run cloud scale infrastructure ▼ Capital costs integrates with existing systems 	▼ Operational costs to run infrastructure

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ARISTA	Application Switch	GbE Switch	10Gb and 40Gb Data Center		10GBASE-T		Ultra Low Latency Switches			Modular Spine Switches			
Product Line Overview													
Chassis	7124FX	7048	7050S-52 705	050S-64	7050Q-16	7050T-36	7050T-52	7050T-64	7150S-24	7150S-52	7150S-64	7504	7508
Height	1RU	1RU	1RU			1RU			1RU		7RU	11RU	
Line Card Slots	-			-		-		-		4	8		
Backplane Capacity (Gbps)	-			_		-		-		5,000 Gbps	10,000 Gbps		
Switching Capacity (Gbps)	480 Gbps	176 Gbps	1,040 Gbps 1,28	,280 Gbps	1,280 Gbps	720 Gbps	1,040 Gbps	1,280 Gbps	480 Gbps	1,040 Gbps	1,280 Gbps	3,840 Gbps	7,680 Gbps
Per Slot Capacity	-			_			_					648 Gbps In / 6	
Forwarding Capacity (Mpps)	360 Mpps	132 Mpps	780 Mpps 960	960 Mpps	960 Mpps	540 Mpps	780 Mpps	960 Mpps	360 Mpps	780 Mpps	960 Mpps	2,880 Mpps	5,760 Mpps
40GbE/100GbE Ready	-	-		40GbE	40GbE		- ' '	40GbE		40GbE		40GbE / 1	
Ports													
100/1000 BASE-T	-	48		_			_			_			-
100Mb/1Gb/10Gb BASE-T	_	_		_	+	32	48	48		_		-	
1/10GbE (SFP+)	24	4	52	48	8	4	4	-	24	52	48	192	384
10/40GbE (QSFP)				16/4	64/16		·	16/4		-	16/4		
SFP+ Options	ſ			10, .		LR, ER, ZR, DWDM	M. 100/1000TX				12	CR, SRL, SR, LR, ER, Z	7R. DWDM, 1000TX
Port-Port Latency	sub-500 ns	4.5 – 14.0 usec	800 ns – 1.35 usec 800 ns – 1.15 usec					350 ns 380 ns 380 ns		4.5 – 14.0 usec			
Forwarding Technology	Cut-Through	Store and Forward	Cut-Through			Cut-Through		Cut-Through		Store and			
Buffer Size	2MB - Dynamic Allocation	768MB - Dynamic Allocation	9MI	9MB - Dynamic Allocation			9MB - Dynamic Allocation		ç	9.5MB - Dynamic Allocation		9GB - Dynamic Allocation	18GB - Dynamic Allocation
Environmental													
AC + AC Power Redundancy	Yes	Yes		Yes			Yes		Yes		Yes	Δς	
DC Power	Yes	No		Yes		<u> </u>	Yes			Yes		No	
N+1 Hot Swappable Fans	Yes	Yes		Yes			Yes	+		Yes		Yes	
Average/Max Power Draw	150W / 210W	174W / 300W	103W / 185W 125V	25W / 220W	192W / 303W			372W / 430W	191W / 334W 191W / 450W 224W / 455W		2100W / 5100W	3800W / 5100W	
Front-to-Rear/Rear-to-Front Air	Yes / Yes	Yes / Yes	Yes / Yes		Yes / Yes		Yes / Yes		Yes /				
Features													
EOS Single Binary Image	Yes	Yes	Yes		Yes			Yes		Yes			
Programmable Data Plane	Yes	No	No		No		No		No				
Latency Analyzer (LANZ)	Yes	No		No		No			Yes		No		
VM Tracer	Yes	Yes		Yes		Yes			Yes		Yes		
Zero Touch Provisioning	Yes	Yes	Yes			Yes			Yes		Yes		
Max VLANs	4096	4096		4096		4096				4096		409	
Max MAC Entries	16,000	16,000		128,000		128,000		64,000			16,000		
Multi Chassis LAG	Yes - 32 Link	Yes - 32 Link		Yes - 32 Link		Yes - 32 Link			Yes - 32 Link		Yes - 32		
Jumbo Frames (Bytes)	9,216 Bytes	9,216 Bytes		9,216 Bytes		9,216 Bytes			9,216 Bytes		9,216 B		
Max ARP Entries	16,000	16,000		16,000		16,000			64,000			16,000	
Max Routes (IPv4 / IPv6)	16,000 / 4,000	8,000	16,000 / 8,000		J	16,000 / 8,000			84,000 / 21,000		16,000 /		
BGP/OSPF	Yes	Yes		Yes	*	Yes		Yes		Yes			
Multicast Routing	PIM-SM	PIM-SM		PIM-SM	,	PIM-SM		PIM-SM		PIM-S			
Multicast Groups	4500	2048		8000		8000		23,000		2048			
Linecard Options													
48-Port 1/10GbE SFP+	_	_		_			_			_		4	8
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