

Cisco Switch Comparison: Nexus Series				
Feature	Cisco Nexus 9000 Series (N9K-C9300)	Cisco Nexus 9000 Series (N9K-C93180YC-EX)	Cisco Nexus 9000 Series (N9K-C9396PX)	Cisco Nexus 7000 Series (N7K-C7009)
Model	N9K-C9300	N9K-C93180YC-EX	N9K-C9396PX	N7K-C7009
Port Density	24, 48	48	96	Modular (up to 288 ports per line card)
Uplinks	4x10G, 2x40G	4x10G, 4x40G, 2x100G	6x40G, 2x100G	Modular (1G, 10G, 40G, 100G)
Switching Capacity	Up to 3.6 Tbps	Up to 3.6 Tbps	Up to 9.6 Tbps	Up to 17 Tbps
Forwarding Rate	Up to 2.6 Bpps	Up to 2.6 Bpps	Up to 3.2 Bpps	Up to 800 Mpps
Stacking	No	No	No	Yes (Virtual Switching System)
Redundancy	N/A	Yes (Redundant Power Supplies)	Yes (Redundant Power Supplies)	Yes (Redundant Power Supplies)
Layer 3 Features	Advanced (OSPF, BGP, EIGRP)	Advanced (OSPF, BGP, EIGRP)	Advanced (OSPF, BGP, EIGRP)	Advanced (OSPF, BGP, EIGRP)
Cloud Management	No	No	No	No
Data Center Focus	Yes	Yes	Yes	Yes
Security Features	Advanced (ACLs, MACsec, TrustSec)	Advanced (ACLs, MACsec, TrustSec)	Advanced (ACLs, MACsec, TrustSec)	Advanced (ACLs, MACsec, TrustSec)
Quality of Service (QoS)	Advanced	Advanced	Advanced	Advanced
Modularity	Fixed	Fixed	Fixed	Modular
Use Case	Data Center, High-Performance Networks	Data Center, High-Performance Networks	Data Center, High-Performance Networks	Core and Aggregation Layers
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