

Product Quick Reference Guide






Data Center Core & Aggregation Systems



	C-Series		E-Series		Z-Series
	C150	C300	E600i	E1200i	Z9000
Performance					
Raw Switching Capacity	768 Gbps	1,536 Tbps	1.75 Tbps	3.5 Tbps	2.5 Tbps
Slot Capacity – Half Duplex (Gbps)	96	96	125	125	–
Forwarding Capacity (Mpps)	476	952	1,042	2,083	1,904
Ports:					
10/100/1000Base-T	192	384	630	1,260	–
1 GbE (SFP)	192	384	350	700	–
10 GbE	32	64	70 (280 max)	140 (560 max)	128
40 GbE	–	–	–	–	32
Power over Ethernet (IEEE 802.3af Class 3)	192	384	–	–	–
Power and Cooling:					
Power consumption (W)	4,420	8,675	3,982	6,934	800
Power	AC or DC	AC or DC	AC	AC	AC or DC
Hot-swappable Redundant Power/Cooling	Yes	Yes	Yes	Yes	Yes
Redundant Power	Yes	Yes	Yes	Yes	Yes
Airflow	Side to Side	Side to Side	Airflow is from bottom-front/side and exhausts to top rear.	Airflow is from bottom-front/side and exhausts to top rear.	IO Panel to PSU Airflow or PSW to IO Panel Airflow
Features:					
FTOS	Yes	Yes	Yes	Yes	Yes
Industry-standard CLI (Console, Telnet, SSHv1/v2)	Yes	Yes	Yes	Yes	Yes
Open Automation	No	No	No	No	Yes BMP Only
Max VLANs (Configured/Choices)	1K/4K	1K/4K	4K/4K	4K/4K	4k/4k
Max MAC Entries	256K	512K	784K	1,568K	128K
Link Aggregation (Groups/Members)	128/8	128/8	32/64 or 255/8	32/64 or 255/8	128/8
Jumbo Frames (Bytes)	9,252	9,252	9,252	9,252	12,000
Max Routes (IPv4 / IPv6)	12K/6K	12K/6K	688K/128	688K/128K	16K/8K
IPv4 Routing	RIP, OSPF, BGP	RIP, OSPF, BGP	RIP, OSPF, IS-IS, BGP	RIP, OSPF, IS-IS, BGP	RIP, OSPF, BGP
IPv6 Routing	OSPF, BGP	OSPF, BGP	OSPF, IS-IS, BGP	OSPF, IS-IS, BGP	Static
Multicast Routing	IGMP, PIM	IGMP, PIM	IGMP, MLD, PIM, MSDP	IGMP, MLD, PIM, MSDP	IGMP, PIM, MSDP
Chassis:					
Chassis Height (RU)	9	13	16	24	2
Line Card Slots	4	8	7	14	1
AC + AC Power Redundancy	Yes	Yes	Yes	Yes	Yes
DC + DC Power Redundancy	Yes	Yes	Yes	Yes	Yes

Top-of-Rack & Access Systems

Product Quick Reference Guide

	1/10 Gigabit Ethernet					10/40 Gigabit Ethernet
						
	S25P	S25N/50N	S25V/50V	S55	S60	S4810
Performance						
Switch Fabric Capacity	144 Gbps	144/288 Gbps	144/288 Gbps	192 Gbps	176 Gbps	1.28 Tbps
Forwarding Capacity (Mpps)	95 Mpps	95/131 Mpps	95/131 Mpps	144	132	960
Buffer Size	2 MB	2 MB/4 MB	2 MB/4 MB	4 MB	1.25 GB	9 MB
Latency	< 5 μs	< 5 μs	< 5 μs	< 5 μs	< 9 μs	800 ns
Ports:						
10/100/1000Base-T	4 (shared)	24/48	24/48	44	44	—
1 GbE (SFP)	24 (GbE or 100Base-FX SFP)	4 (shared)	4 (shared)	4	4	48
10 GbE	4 (XFP or CX4)	4 (XFP or CX4)	4 (XFP or CX4)	4 (SFP+)	4 (SFP+)	64 (4xQSFP+ breakout)
40 GbE (QSFP+)	—	—	—	—	—	4
Power over Ethernet (IEEE 802.3af Class 3)	—	—	24/48	—	—	—
Power and Cooling:						
Power consumption (W)	90 (ACV)/77 (DC)	102/156	102/146	130	225	350
Power	AC or DC	AC, AC+DC or DC	AC + DC	AC or DC	AC or DC	AC or DC
Hot-swappable Redundant Power/Cooling	—	—	—	Yes	Yes	Yes
Redundant Power	Yes	Yes	Yes	Yes	Yes	Yes
Airflow	Side to Side	Side to Side	Side to Side	IO Panel to PSU Airflow or PSU to IO Panel Airflow	IO Panel to PSU Airflow or PSU to IO Panel Airflow	IO Panel to PSU Airflow or PSU to IO Panel Airflow
Features:						
Chassis Height (RU)	1 RU	1 RU	1 RU	1 RU	1 RU	1 RU
Expansion Module Slots	2	2	2	2	2	—
Stacking (using modules)	8	8	8	8	12	—
User Port Stacking	—	—	—	—	—	3
FTOS	Yes	Yes	Yes	Yes	Yes	Yes
Industry-standard CLI (Console, Telnet, SSHv1/v2)	Yes	Yes	Yes	Yes	Yes	Yes
VLT	No	No	No	No	No	Yes
Open Automation (BMP, SS, VSN, PM)	—	—	—	Yes	Yes	Yes
Max L2 VLANS	1K	1K	1K	4K	4K	4K
Max L3 VLANS	128	128	128	1K	1K	511
Max MAC Entries	16K	16K/32K	16K	32K	32K	128K
Link Aggregation (Groups / Members)	128/8	128/8	128/8	128/8	128/8	128/8
Jumbo Frames (Bytes)	9,252	9,252	9,252	9,252	9,252	12K
Max Routes (IPv4 / IPv6)	4K/2,500	4K/2,500	4K/2,500	16K/8K	16K/8K	16K/8K
IPv4 Routing	RIP, OSPF, BGP	RIP, OSPF, BGP	RIP, OSPF, BGP	RIP, OSPF, BGP	RIP, OSPF, BGP	RIP, OSPF, BGP, IS-IS
IPv6 Routing	Static	Static	Static	Static	Static	Static
Multicast Routing	IGMP, PIM	IGMP, PIM	IGMP, PIM	IGMP, PIM	IGMP, PIM	IGMP, PIM
Expansion Module Options:						
2-port 12 Gbps Stacking	2	2	2	1	2	—
1-port 24 Gbps Stacking	2	2	2	—	2	—
2-port 10 GbE (CX4, XFP or SFP+)	(XFP or CX4)	(XFP or CX4)	(XFP or CX4)	(SFP+)	(SFP+)	—