





Cisco Nexus 7000 I/O Module Comparison Matrix

Internal / External Info	N7K-M148GS-11	N7K-M148GS-11L	N7K-M148GT-11	N7K-M148GT-11L	N7K-M108X2-12L	N7K-M132XP-12	N7K-M132XP-12L	N7K-M224XP-23L	N7K-M208FQ-23L	N7K-M202CF-24L	N7K-F132XP-15	N7K-F248XP-25	N7K-F248XP-25E	N7K-F248XT-25E	N7K-F248XP-23E	N7K-F348XP-25	N7K-F312FQ-25	N7K-F306K-25	N7K-F348XP-23	N7K-F324FQ-25	N7K-F312K-26	N7K-M348XP-25L	N7K-M324FQ-25L	N7K-M348XP-23L	N7K-M324FQ-25L	N7K-M312CQ-26L	
External	PIM SSM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	PIM Bi-Dir	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	QoS Features	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	IPv6 QoS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	QoS Marking	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS	DSCP & COS
External	QoS Queuing	COS	COS	COS	COS	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP	COS + DSCP
External	QoS - Min. NX-OS Release	5.1(1)	5.1(1)	5.1(1)	5.1(2)	5.1(1)	5.1(1)	5.1(1)	6.1(1)	6.1(1)	6.1(1)	5.1(1)	6.0(1)	6.1(2)	6.1(2)	6.2(2)	Yes 6.2(12)	Yes 6.2(6)	Yes 6.2(10)	Yes 6.2(6)	Yes 6.2(8)	Yes 6.2(6)	Yes [8.0(1)]	Yes [8.0(1)]	Yes [7.3(0)DX(1)]	Yes [7.3(0)DX(1)]	Yes [8.0(1)]
External	QoS - SRR	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	QoS - tail drop congestion avoidance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	QoS - WRED congestion avoidance	No	No	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	QoS - DSCP to QUEUE mapping (Ingress)	No	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	QoS - DSCP to QUEUE mapping (egress)	No	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
External	QoS - policing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	QoS - set discard_class or set qos_group	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	QoS - per queue statistics	No	No	No	No	No	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	No	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>1</sup>	
External	Security Features																										
External	MAC Sec - Min. NX-OS Release	5.2(1)	5.2(1)	5.2(1)	5.2(1)	5.2(1)	5.2(1)	5.2(1)	6.1(1)	6.1(1)	6.1(1)	No	No	6.2(0) (last 8 ports)	6.2(0)	6.2(0) (last 8 ports)	6.2(0)	6.2(0)	6.2(0) (last 8 ports)	6.2(0)	6.2(0)	6.2(0)	6.2(0)	6.2(0)	6.2(0)	6.2(0)	6.2(0)
External	AAA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	MAC ACL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	PAQL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	VACL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	RAQL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	CTS - SGACL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	CTS - 802.1AE (MACSEC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes (ports 41 to 48)	Yes (ports 41 to 48)	Yes (ports 41 to 48)	Yes (ports 41 to 48)	No	No	Yes (ports 41 to 48)	No	No	Yes	Yes	Yes	Yes	Yes	Yes
External	802.1x	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	PVLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	Port-Security	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	Dynamic ARP Inspection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	CoPP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	Rate-Limiter (pps to CPU)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
External	FCoE Features																										
External	FCoE Support	No	No	No	No	No	No	No	No	No	Yes	Yes (with SUP22E only)	Yes (with SUP22E only)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	TBD	TBD	TBD	TBD	TBD
Internal	FCoE VF Port (server attachment)	No	No	No	No	No	No	No	No	No	Yes	Yes (with SUP22E only)	Yes (with SUP22E only)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Internal	FCoE VE Port (FCF switch attachment)	No	No	No	No	No	No	No	No	No	Yes	Yes (with SUP22E only)	Yes (with SUP22E only)	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

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Internal / External Info	N7K-M148GS-11	N7K-M148GS-11L	N7K-M148GT-11	N7K-M148GT-11L	N7K-M108X2-12L	N7K-M132XP-12	N7K-M132XP-12L	N7K-M24XP-23L	N7K-M208FQ-23L	N7K-M202CF-24L	N7K-F132XP-15	N7K-F248XP-25	N7K-F248XP-25E	N7K-F248XT-25E	N7K-F248XP-23E	N7K-F348XP-25	N7K-F312FQ-25	N7K-F306K-25	N7K-F348XP-23	N7K-F324FQ-25	N7K-F312CK-26	N7K-M348XP-25L	N7K-M324FQ-25L	N7K-M348XP-23L	N7K-M324FQ-25L	N7K-M312CQ-26L
External	FCoE Support -Software Compatibility																									FCoE Support -Software Compatibility
External	Priority Flow Control (PFC)																									Priority Flow Control (PFC)
External	Embedded Management Features																									Embedded Management Features
External	Port-profile (inherit)																									Port-profile (inherit)
External	IEEE 1588 PTP																									IEEE 1588 PTP
External	PONG																									PONG
External	SPAN Sessions																									SPAN Sessions
External	SPAN Source																									SPAN Source
External	SPAN Destination																									SPAN Destination
External	ERSPAN Type 2 Source ERSPAN																									ERSPAN Type 2 Source ERSPAN
External	ERSPAN Type 2 Destination ERSPAN																									ERSPAN Type 2 Destination ERSPAN
External	ERSPAN Type 3 Source ERSPAN																									ERSPAN Type 3 Source ERSPAN
External	ERSPAN Type 3 Destination ERSPAN																									ERSPAN Type 3 Destination ERSPAN
External	SPAN - MTU Truncation																									SPAN - MTU Truncation
External	SPAN - Rate-Limit																									SPAN - Rate-Limit
External	SPAN - Min. NX-OS Release																									SPAN - Min. NX-OS Release
External	NETFLOW (Full Netflow)																									NETFLOW (Full Netflow)
External	NETFLOW (Sampled Netflow)																									NETFLOW (Sampled Netflow)
External	L3 NETFLOW																									L3 NETFLOW
External	L2 NETFLOW																									L2 NETFLOW
External	Bridged NETFLOW																									Bridged NETFLOW
External	Ingress / Egress NETFLOW																									Ingress / Egress NETFLOW
External	Sub-Interface NETFLOW																									Sub-Interface NETFLOW
External	ACL Capture																									ACL Capture
Internal	Config Session																									Config Session
Internal	Config Checkpoint/Rollback																									Config Checkpoint/Rollback
Internal	SNMP v1/v2c/v3																									SNMP v1/v2c/v3
Internal	XML																									XML
Internal	Wireshark																									Wireshark
Internal	IP SLA																									IP SLA
External	Serviceability Features																									Serviceability Features
External	VDC Ports Allocation																									VDC Ports Allocation
External	GOLD Support - Min. NX-OS Release																									GOLD Support - Min. NX-OS Release
Internal	GOLD Loopback Test																									GOLD Loopback Test
Internal	ISSU																									ISSU
Internal	EEM																									EEM
<p>Note:</p> <p><sup>1</sup> Yes<sup>1</sup> indicates supported by the hardware ,however the feature would be enabled in future NX-OS software release;</p> <p><sup>2</sup> indicate hardware support;</p> <p>Yes * indicate support for the feature, for more information consult NX-OS software release notes.</p> <p>General Disclaimer: Cisco may change the programs or products mentioned at any time without notice, Cisco Terms and Conditions apply <a href="https://www.cisco.com/web/siteassets/legal/terms_condition.html">https://www.cisco.com/web/siteassets/legal/terms_condition.html</a> . Please contact your local sales representative for more information on nexus 7000 switches or visit <a href="http://www.cisco.com/go/nexus">www.cisco.com/go/nexus</a></p>																										