



Модуль Cisco Nexus N7K-M132XP-12

N7K-M132XP-12

Описание

[Архитектура Cisco Nexus 7000 \(ENG\)](#)

[Обзор Cisco Nexus 7000 \(RUS\)](#)

[Развёртывание Cisco Nexus 7000 в сетях ЦОД \(ENG\)](#)

[Устранение проблем с Nexus 7000 и NX-OS \(ENG\)](#)

Non-XL Mode	XL Mode	
MAC entries	128K	128K
IPv4 routes	128K	Up to 1M
IPv6 routes	64K	Up to 350K
NetFlow entries	512K	512K
ACL	64K	128K

Основные особенности:

- 32 порта 10GE (SFP+)
- Load sharing на все модули в пределах матрицы
- Distributed forwarding
- MPLS
- Аппаратная поддержка TrustSec
- Поддержка горячей замены OIR

Техническая спецификация:

Item	Specifications
System	
Product	• Supported in Cisco Nexus 7000 Series 9-, 10-, and 18-slot chassis



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compatibility	• Supported Fabric-1 or Fabric-2 fabric modules • Supported SUP1, SUP2 or SUP2E Supervisor modules
Software compatibility	Cisco NX-OS Software Release 4.0 or later (minimum requirement)
Memory	1 GB DRAM
Front-panel LEDs	• Status: Green (operational), red (faulty), or orange (module booting) • Link: Green (port enabled and connected), orange (port disabled), blinking orange (faulty port), off (port enabled and not connected), or blinking green and orange in conjunction with ID LED blue (port flagged for identification; beacon) • ID: Blue (operator has flagged this card for identification; beacon) or off (module not flagged)
Programming interfaces	• XML • Scriptable command-line interface (CLI) • Cisco Data Center Network Manager (DCNM) GUI
Network management	• Cisco DCNM 4.0
Physical Interfaces	
Connectivity	32 ports of 10 Gigabit Ethernet (SFP+ pluggable optics module)
Maximum port density	256 ports of 10 Gigabit Ethernet for 10-slot chassis 512 ports of 10 Gigabit Ethernet for 18-slot chassis
MAC security	All 32 ports have built-in IEEE 802.1AE MAC security and an AES cipher with a 128-bit key (requires a Cisco Advanced LAN license to enable)
Queues per port	• Ingress: 8 queues and 2 thresholds (RX: 8q2t) • Egress: 1 strict priority queue, 7 Deficit-Weighted Round-Robin (DWRR) queues, and 4 thresholds (TX: 1p7q4t)
Scheduler	DWRR and Shaped Round-Robin (SRR)
Port buffers	• 1 MB plus 65 MB per port on ingress and 80 MB per port on egress for dedicated mode operation • 1 MB per port plus 65 MB shared per 4-port group on ingress and 80 MB per 4-port group on



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	egress in shared mode
Jumbo frame support for bridged and routed packets	Up to 9216 bytes
Forwarding Engine: M1	
Performance	60 Mpps Layer 2 and 3 IPv4 unicast and 30 Mpps IPv6 unicast
MAC entries	128K
Forwarding Information Base (FIB) entries	128K
NetFlow entries	512,000 shared (ingress plus egress)
VLANs	16,384 bridge domains and 4096 simultaneous VLANs per VDC
ACLs	64,000
Policers	16K
Fabric Interface	
Switch fabric interface	80 Gbps in each direction (160 Gbps full duplex) distributed across up to 5 fabric modules (80-Gbps throughput requires 2 or more fabric modules)
OIR	Online insertion and removal
Environmental	
Physical dimensions	• Occupies one I/O module slot in a Cisco Nexus 7000 Series chassis • Dimensions (H x W x D): 1.733 x 15.3 x 21.9 in. (4.4 x 38.9 x 55.6 cm) • Weight: 18.5 lb with SFP+ and 17 lb without SFP+ modules
Power consumption	• Typical: 611 watts (W) • Maximum: 750W
Environmental conditions	• Operating temperature: 32 to 104°F (0 to 40°C) • Operational relative humidity: 5 to 90%, noncondensing • Storage temperature: -40°F to 158°F (-40 to 70°C)



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	• Storage temperature: -40° to 150 °F (-40 to 70 °C) • Storage relative humidity: 5 to 95%, noncondensing
Regulatory compliance	• EMC compliance • FCC Part 15 (CFR 47) (USA) Class A • ICES-003 (Canada) Class A • EN55022 (Europe) Class A • CISPR22 (International) Class A • AS/NZS CISPR22 (Australia and New Zealand) Class A • VCCI (Japan) Class A • KN22 (Korea) Class A • CNS13438 (Taiwan) Class A • CISPR24 • EN55024 • EN50082-1 • EN61000-3-2 • EN61000-3-3 • EN61000-6-1 • EN300 386
Environmental standards	• NEBS criteria levels • SR-3580 NEBS Level 3 (GR-63-CORE, issue 3, and GR-1089-CORE, issue 4) • Verizon NEBS compliance • Telecommunications Carrier Group (TCG) Checklist • Qwest NEBS requirements • Telecommunications Carrier Group (TCG) Checklist • ATT NEBS requirements • ATT TP76200 level 3 and TCG Checklist • ETSI • ETSI 300 019-1-1, Class 1.2 Storage • ETSI 300 019-1-2, Class 2.3 Transportation



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	• ETSI 300 019-1-3, Class 3.2 Stationary Use
Safety	• UL/CSA/IEC/EN 60950-1 • AS/NZS 60950

Общие

Тип устройства	Карты расширения
Линейка Cisco	Nexus 7000
Производительность модульного коммутатора, Gbps	80
Совместимая платформа	Шасси N7K-C7009 Шасси N7K-C7010 Шасси N7K-C7018
Поддерживаемый тип интерфейсов модульного коммутатора	Интерфейсы 10GBase-X SFP+
Совместимость с управляющими модулями	N7K-SUP2 N7K-SUP2E N7K-SUP1
Таблица маршрутизации IPv4/IPv6	128,000/64,000
Производительность маршрутизации, Mpps	60
Размер таблицы MAC адресов	128