

## Коммутатор Cisco Nexus N5K-C56128P

N5K-C56128P



### Описание

#### В комплект входит:

- Блок питания AC - 4 шт
- Вентиляторные модули - 4 шт

#### Крепления и лицензии в комплект не входят

#### Особенности Cisco Nexus N5K-C56128P:

- 48 фиксированных портов 1/10G (Ethernet/FCoE)
- + 4x40G QSFP+ (4x10G или 40G) (Ethernet/FCoE)
- 2 слота расширения(на каждый слот):
  - 24 унифицированных порта 1/10G (Ethernet/FCoE) или 2/4/8G FC
  - 2x40G QSFP+ (4x10G или 40G) (Ethernet/FCoE)
- 4 слота для БП hot swap - (F2B или B2F for cooling)
- 4 слота для вент. модулей hot swap - (F2B или B2F for cooling)

#### Общие характеристики:

- L2, L3, Security, QoS, SPAN/ERSPAN, Multicast, Sampled NetFlow, vPC, ECMP
- Поддержка Fibre Channel на унифицированных портах
- Мониторинг заполняемости буферов на портах и очередях QoS
- Отказоустойчивые, поддерживающие горячую замену БП (AC/DC) и вентиляторы
- F2B, B2F охлаждение
- Base license - L2 + базовый L3, LAN Enterprise license - Advances L3, лицензируется FC/ FCoE

#### Технические характеристики

QoS	<p>Layer 2 IEEE 802.1p (class of service [CoS])</p> <p>8 unicast queues and 8 multicast queues per port</p> <p>Per-port QoS configuration</p> <p>CoS trust</p> <p>Port-based CoS assignment</p> <p>Modular QoS CLI (MQC) compliance: IPv4 and IPv6</p> <p>ACL-based QoS classification (Layers 2, 3, and 4)</p> <p>Flexible TCAM carving</p>
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	<ul style="list-style-type: none"><li>MAC and ARP hardware carving</li><li>MQC CoS marking</li><li>Per-port virtual output queuing</li><li>CoS-based egress queuing</li><li>Egress strict-priority queuing</li><li>Egress port-based scheduling: Deficit Weighted Round-Robin (DWRR)</li><li>Control-Plane Policing (CoPP): IPv4 and IPv6</li></ul>
Безопасность	<ul style="list-style-type: none"><li>Ingress ACLs (standard and extended) on Ethernet and virtual Ethernet ports</li><li>Standard and extended Layer 2 ACLs: MAC addresses, protocol type, etc.</li><li>Standard and extended Layer 3 and 4 ACLs: IPv4 and IPv6, Internet Control Message Protocol (ICMP and ICMPv6), TCP, User Datagram Protocol (UDP), etc.</li><li>Ingress policing</li><li>VLAN-based ACLs (VACLs)</li><li>Port-based ACLs (PACLs)</li><li>Named ACLs</li><li>Optimized ACL distribution</li><li>ACLs on virtual terminals (vtys)</li><li>ACL logging (IPv4 only)</li><li>Dynamic Host Configuration Protocol (DHCP) snooping with Option 82</li><li>Dynamic ARP Inspection</li><li>IP source guard</li><li>DHCP relay (up to 32 destinations)</li><li>Ethernet port security</li><li>IPv6 RAACL, PACL, and VACL</li><li>iSCSI type-length-value (TLV)</li></ul>
Общие MIBs	<ul style="list-style-type: none"><li>SNMPv2-SMI</li><li>CISCO-SMI</li><li>SNMPv2-TM</li><li>SNMPv2-TC</li><li>IANA-ADDRESS-FAMILY-NUMBERS-MIB</li><li>IANAifType-MIB</li><li>IANAiprouteprotocol-MIB</li><li>HCNUM-TC</li><li>CISCO-TC</li><li>SNMPv2-MIB</li><li>SNMP-COMMUNITY-MIB</li><li>SNMP-FRAMEWORK-MIB</li></ul>



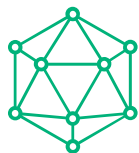
	SNMP-NOTIFICATION-MIB SNMP-TARGET-MIB SNMP-USER-BASED-SM-MIB SNMP-VIEW-BASED-ACM-MIB CISCO-SNMP-VACM-EXT-MIB
Layer 3 MIBs	UDP-MIB TCP-MIB OSPF-MIB BGP4-MIB CISCO-HSRP-MIB
MIB, Ethernet	CISCO-VLAN-MEMBERSHIP-MIB CISCO-Virtual-Interface-MIB CISCO-VTP-MIB
MIBs	ENTITY-MIB IF-MIB CISCO-ENTITY-EXT-MIB CISCO-ENTITY-FRU-CONTROL-MIB CISCO-ENTITY-SENSOR-MIB CISCO-FLASH-MIB CISCO-SYSTEM-MIB CISCO-SYSTEM-EXT-MIB CISCO-IP-IF-MIB CISCO-IF-EXTENSION-MIB CISCO-SERVER-INTERFACE-MIB CISCO-NTP-MIB CISCO-IMAGE-MIB CISCO-IMAGE-CHECK-MIB CISCO-IMAGE-UPGRADE-MIB CISCO-CONFIG-COPY-MIB CISCO-ENTITY-VENDORTYPE-OID-MIB CISCO-BRIDGE-MIB
Мониторинг MIBs	DIFFSERV-DSCP-TC NOTIFICATION-LOG-MIB DIFFSERV-MIB CISCO-CALLHOME-MIB



	<p>CISCO-PROCESS-MIB</p> <p>RMON-MIB</p> <p>CISCO-RMON-CONFIG-MIB</p> <p>CISCO-HC-ALARM-MIB</p> <p>LLDP-MIB</p>
Безопасность MIBs	<p>CISCO-AAA-SERVER-MIB</p> <p>CISCO-AAA-SERVER-EXT-MIB</p> <p>CISCO-COMMON-ROLES-MIB</p> <p>CISCO-COMMON-MGMT-MIB</p> <p>CISCO-RADIUS-MIB</p> <p>CISCO-SECURE-SHELL-MIB</p> <p>TCP/IP MIBs</p> <p>INET-ADDRESS-MIB</p> <p>TCP-MIB</p> <p>CISCO-TCP-MIB</p> <p>UDP-MIB</p> <p>IP-MIB</p> <p>CISCO-IP-PROTOCOL-FILTER-MIB</p> <p>CISCO-DNS-CLIENT-MIB</p> <p>CISCO-PORTSECURITY-MIB</p>
Другое MIBs	<p>START-MIB</p> <p>CISCO-LICENSE-MGR-MIB</p> <p>CISCO-FEATURE-CONTROL-MIB</p> <p>CISCO-CDP-MIB</p> <p>CISCO-RF-MIB</p> <p>CISCO-ETHERNET-FABRIC-EXTENDER-MIB</p> <p>CISCO-BRIDGE-MIB</p> <p>CISCO-FCOE-MIB</p> <p>CISCO-PORTCHANNEL-MIB</p> <p>CISCO-ZS-MIB</p>
Стандарты	
Промышленные стандарты	<p>IEEE 802.1D: Spanning Tree Protocol</p> <p>IEEE 802.1p: CoS prioritization</p> <p>IEEE 802.1Q: VLAN tagging</p> <p>IEEE 802.1Qaz: Enhanced transmission selection</p>



	<p>IEEE 802.1Qbb: Per-priority Pause</p> <p>IEEE 802.1s: Multiple VLAN instances of Spanning Tree Protocol</p> <p>IEEE 802.1w: Rapid reconfiguration of Spanning Tree Protocol</p> <p>IEEE 802.3: Ethernet</p> <p>IEEE 802.3ad: LACP with fast timers</p> <p>IEEE 802.3ae: 10 Gigabit Ethernet</p> <p>IEEE 802.3ba: 40 Gigabit Ethernet (Applies to 40G SR4, SR4-S, LR4, LR4-S, and CSR4 optics only)</p> <p>SFF 8431 SFP+ CX1 support</p> <p>RMON</p>
Соответствие требованиям	Products should comply with CE Markings according to directives 2004/108/EC and 2006/95/EC.
Безопасность	<p>UL 60950-1 Second Edition</p> <p>CAN/CSA-C22.2 No. 60950-1 Second Edition</p> <p>EN 60950-1 Second Edition</p> <p>IEC 60950-1 Second Edition</p> <p>AS/NZS 60950-1</p> <p>GB4943</p>
EMC: Emissions	<p>47CFR Part 15 (CFR 47) Class A</p> <p>AS/NZS CISPR22 Class A</p> <p>CISPR22 Class A</p> <p>EN55022 Class A</p> <p>ICES003 Class A</p> <p>VCCI Class A</p> <p>EN61000-3-2</p> <p>EN61000-3-3</p> <p>KN22 Class A</p> <p>CNS13438 Class A</p>
EMC: Immunity	<p>EN55024</p> <p>CISPR24</p> <p>EN300386</p> <p>KN 61000-4 series</p>
RoHS	The product is RoHS 6 compliant with exceptions for leaded ball grid array (BGA) balls and lead press-fit connectors.
Размеры (ВxШxГ)	<p>Cisco Nexus 5672UP и 5672UP-16G: (4.4 x 43.9 x 76.2 см)</p> <p>Cisco Nexus 56128P: (8,8 x 43,9 x 76,2 см)</p>

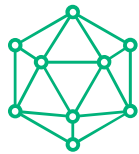


Рабочая температура	от 0 до 40 °C
Температура хранения	от -40 до 70 °C
Влажность	От 5 до 95% (без конденсации)
Вес	Cisco Nexus 5672UP / 5672UP-16G: 15 кг Cisco Nexus 56128P: 27 кг

### Информация для заказа

Шасси	
N5K-C5672UP-16G	Cisco Nexus 5672UP-16G 1RU, 24p 10-Gbps SFP+, 24 Unified Ports, 6p 40G QSFP+
N5K-C5672UP-16G=	Cisco Nexus 5672UP-16G 1RU, 24p 10-Gbps SFP+, 24 Unified Ports, 6p 40G QSFP+, Spare
N5K-C5672UP	Cisco Nexus 5672UP 1RU, 32 p 10-Gbps SFP+, 16 Unified Ports, 6p 40G QSFP+
N5K-C5672UP=	Cisco Nexus 5672UP 1RU, 32 p 10-Gbps SFP+, 16 Unified Ports, 6p 40G QSFP+, Spare
N5K-C56128P	Cisco Nexus 56128P 2RU, 48x 10-Gbps SFP+, 4 x 40G QSFP+ Fixed Ports (Base)
N5K-C56128P=	Cisco Nexus 56128P 2RU, 48x 10-Gbps SFP+, 4 x 40G QSFP+ Fixed Ports, Spare (Base)
Вентиляторы	
N6K-C6001-FAN-F	Cisco Nexus 5672UP/5672UP-16G Fan Module, Front-to-Back (Fan Side Intake) Airflow
N6K-C6001-FAN-F=	Cisco Nexus 5672UP/5672UP-16G Fan Module, Front-to-Back (Fan Side Intake) Airflow, spare
N6K-C6001-FAN-B	Cisco Nexus 5672UP/5672UP-16G Fan Module, Back-to-Front (Port Side Intake) Airflow

N6K-C6001-FAN-B=	Cisco Nexus 5672UP/5672UP-16G Fan Module, Back-to-Front (Port Side Intake) Airflow, spare
N56128-FAN-B=	Cisco Nexus 56128P Fan Module, Back-to-Front (Port Side Intake) Airflow, spare
N56128-FAN-B	Cisco Nexus 56128P Fan Module, Back-to-Front (Port Side Intake) Airflow
N56128-FAN-F=	Cisco Nexus 56128P Fan Module, Front-to-Back (Fan Side Intake) Airflow, spare
N56128-FAN-F	Cisco Nexus 56128P Fan Module, Front-to-Back (Fan Side Intake) Airflow
Модули расширения	
N56-M24UP2Q	Cisco Nexus 56128P Expansion Module, 24x 10-Gbps SFP+ UP, 2 x QSFP+ fixed ports
N56-M24UP2Q=	Cisco Nexus 56128P Expansion Module, 24x 10-Gbps SFP+ UP, 2 x QSFP+ fixed ports, Spare
Блоки питания	
N55-PDC-1100W(=)	Cisco Nexus 5500/6000/5600 PSU Front-to-Back Airflow module spare, DC, - 40 to -72VDC, 1100W
N55-PAC-1100W(=)	Cisco Nexus 5500/6000/5600 PSU Front-to-Back Airflow module spare, AC, 94 to 240 VAC, 1100W
NXA-PAC-1100W(=)	Cisco Nexus 5500/6000/5600 Platinum PSU Front-to-Back Airflow module spare, A/C, 100-240V, 1100W
NXA-PAC-1100W-B(=)	Cisco Nexus 5500/6000/5600 Platinum PSU Back-to-Front Airflow module spare, A/C, 100-240V, 1100W
NXA-PHV-1100W(=)	Cisco Nexus 5500/6000/5600 Platinum HV-AC-DC PS, Front-to-Back Airflow module spare, 1100W
NXA-PHV-1100W-B(=)	Cisco Nexus 5500/6000/5600 Platinum HV-AC-DC PS, Back-to-Front Airflow module spare, 1100W



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программное обеспечение	
N6KUK9-730N1.1A	Cisco Nexus 5600/6000 Base OS Software Rel 7.3(0)N1(1)
N6KUK9-730N1.1A=	Cisco Nexus 5600/6000 Base OS Software Rel 7.3(0)N1(1), spare
N6KUK9-707N1.1	Cisco Nexus 5600/6000 Base OS Software Rel 7.0(7)N1(1)
Кабели питания	
CAB-250V-10A-AR	AC Power Cord - 250V, 10A - Argentina (2.5m)
CAB-9K10A-AU	Power Cord, 250VAC 10A 3112 Plug, Australia (2.5m)
CAB-250V-10A-BR	AC Power Cord - 250V, 10A - Brazil(2.1m)
CAB-250V-10A-CN	AC Power Cord - 250V, 10A - PRC (2.5m)
CAB-9K10A-EU	Power Cord, 250VAC 10A CEE 7/7 Plug, EU (2.5m)
CAB-IND-10A	10A Power cable for India (2.5m)
CAB-250V-10A-IS	AC Power Cord - 250V, 10A - Israel (2.5m)
CAB-9K10A-IT	Power Cord, 250VAC 10A CEI 23-16/VII Plug, Italy (2.5m)
CAB-250V-10A-ID	AC Power Cord - 250V, 10A, South Africa(2.5m)
CAB-9K10A-SW	Power Cord, 250VAC 10A MP232 Plug, SWITZ (2.5m)
CAB-9K10A-UK	Power Cord, 250VAC 10A BS1363 Plug (13 A fuse), UK (2.5m)
CAB-9K12A-NA	Power Cord, 125VAC 13A NEMA 5-15 Plug, North America (2.5m)
CAB-AC-250V/13A	North America, NEMA L6-20 250V/20A plug-IEC320/C13 receptacle (2.0m)
CAB-N5K6A-NA	Power Cord, 200/240V 6A North America (2.5m)





CAB-C13-CBN	Cabinet Jumper Power Cord, 250 VAC 10A, C14-C13 Connectors (0.7m)
CAB-C13-C14-2M	Power Cord Jumper, C13-C14 Connectors, 2 Meter Length (2m)
CAB-C13-C14-AC	Power cord, C13 to C14 (recessed receptacle), 10A (3m)
Аксессуары	
N5596-ACC-KIT=	Cisco Nexus 56128P Chassis Accessory Kit, spare
N5672-ACC-KIT=	Cisco Nexus 5672UP/5672UP-16G Chassis Accessory Kit, spare
Трансиверы и патч-корды	
FET-10G	10-Gbps SFP+ module for Cisco Nexus 2000 Series to Cisco Nexus 5000 Series connectivity
SFP-10G-SR	10GBASE-SR SFP+ module (multimode fiber [MMF])
SFP-10G-SR-S	10GBASE-SR SFP Module, Enterprise-Class
SFP-10G-LR	10GBASE-LR SFP+ module (single-mode fiber [SMF])
SFP-10G-LR-S	10GBASE-LR SFP Module, Enterprise-Class
SFP-10G-ER	10GBASE-ER-SFP+ module (SMF)
SFP-10G-ER-S	10GBASE-ER SFP Module, Enterprise-Class
SFP-H10GB-CU1M	10GBASE-CU SFP+ cable, 1m (Twinax cable)
SFP-H10GB-CU1.5M	10GBASE CU SFP+ cable, 1.5m (passive Twinax cable)
SFP-H10GB-CU2M	10GBASE CU SFP+ cable, 2m (passive Twinax cable)
SFP-H10GB-CU2.5M	10GBASE CU SFP+ cable, 2.5m (passive Twinax cable)



SFP-H10GB-CU3M	10GBASE-CU SFP+ cable, 3m (Twinax cable)
SFP-H10GB-CU5M	10GBASE-CU SFP+ cable, 5m (Twinax cable)
SFP-H10GB-ACU7M	10GBASE-CU SFP+ cable, 7m (active Twinax cable)
SFP-H10GB-ACU10M	10GBASE-CU SFP+ cable, 10m (active Twinax cable)
SFP-10G-AOC1M	10GBASE-AOC SFP+ cable, 1m
SFP-10G-AOC2M	10GBASE-AOC SFP+ cable, 2m
SFP-10G-AOC3M	10GBASE-AOC SFP+ cable, 3m
SFP-10G-AOC5M	10GBASE-AOC SFP+ cable, 5m
SFP-10G-AOC7M	10GBASE-AOC SFP+ cable, 7m
SFP-10G-AOC10M	10GBASE-AOC SFP+ cable, 10m
GLC-T	1000BASE-T SFP
GLC-ZX-SMD	1000BASE-ZX SFP transceiver module, SMF, 1550-nm wavelength, dual LC/PC connector, digital optical monitoring (DOM); not supported on Cisco Nexus 5672UP-16G
GLC-SX-MMD	Gigabit Ethernet SFP, LC connector SX transceiver (MMF), extended temperature range and DOM
GLC-EX-SMD	1000BASE-EX SFP transceiver module, SMF, 1310-nm wavelength, dual LC/PC connector, digital optical monitoring (DOM); not supported on Cisco Nexus 5672UP-16G
GLC-LH-SMD	Gigabit Ethernet SFP, LC connector LX/LH transceiver (SMF), extended temperature range and DOM
SFP-GE-T	1000BASE-T SFP, extended temperature range; not supported on Cisco Nexus 5672UP-16G
DS SFP FC16G SW	16 Gbps Fibre Channel shortwave SFP, LC connector

DS-SFP-FC16G-SW	16-Gbps Fibre Channel shortwave SFP+, LC connector (16-Gbps Fibre Channel support only on last 24 ports of Cisco Nexus 5672UP-16G)
DS-SFP-FC16G-LW	16-Gbps Fibre Channel longwave SFP+, LC connector (16-Gbps Fibre Channel support only on last 24 ports of Cisco Nexus 5672UP-16G)
DS-SFP-FC8G-SW	8-Gbps Fibre Channel shortwave SFP+, LC connector (Fibre Channel support only on last 24 ports of Cisco Nexus 5672UP-16G, on last 16 ports of Cisco Nexus 5672UP, and on GEM on Cisco Nexus 56128P)
DS-SFP-FC8G-LW	8-Gbps Fibre Channel longwave SFP+, LC connector (Fibre Channel support only on last 24 ports of Cisco Nexus 5672UP-16G, on last 16 ports of Cisco Nexus 5672UP, and on GEM on Cisco Nexus 56128P)
DS-SFP-FC4G-SW	4-Gbps Fibre Channel shortwave SFP, LC connector (Fibre Channel support only on last 16 ports of Cisco Nexus 5672UP and on GEM on Cisco Nexus 56128P)
DS-SFP-FC4G-LW	4-Gbps Fibre Channel long-wave SFP, LC connector (Fibre Channel support only on last 16 ports of Cisco Nexus 5672UP and on GEM on Cisco Nexus 56128P)

## Общие

Размещение

Монтируемые в стойку

## Тип коммутатора

Тип коммутатора

Управляемый L2

Линейка Cisco

Nexus 5000

## Интерфейсы

Тип основных портов

10GigabitEthernet SFP+

Интерфейсы 10GBase-X SFP+

48

Консольный порт

RJ45

Количество основных портов

48

Тип Uplink портов

10GigabitEthernet SFP+

## Питание



OOO NAGTECH  
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Напряжение питания	~220V AC
Допустимое напряжение питания	94-240V AC

## L2 функционал

Количество VLAN	4096
Размер таблицы MAC адресов	25000
Количество правил ACL	4000
Агрегирование портов	LACP