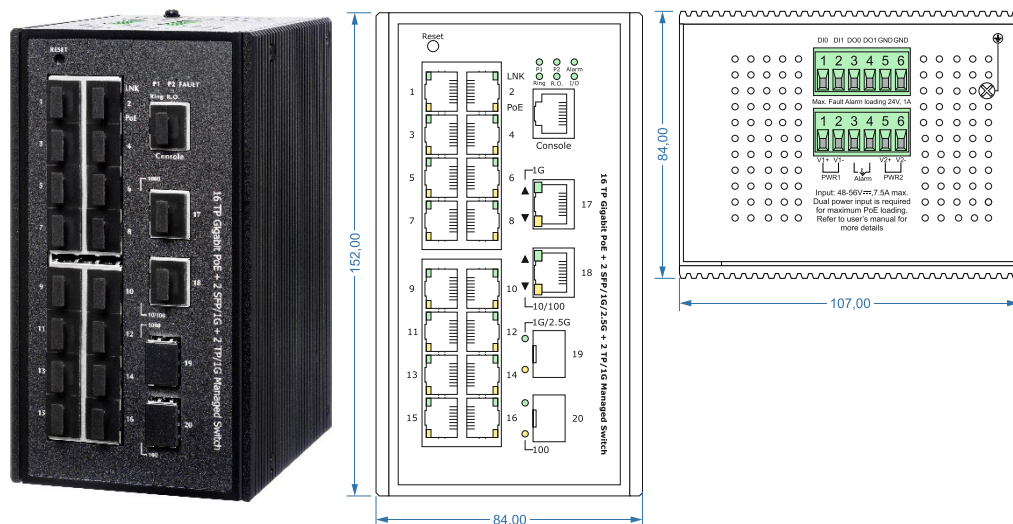


## Обзор

NIS-3500-3426PGE представляет собой L3 управляемый гигабитный коммутатор промышленного класса с 18 портами Ethernet 10/100/1000Base-T (16 с поддержкой PoE) и 2 портами 2.5Gbit SFP. Имея прочный корпус для размещения на DIN-рейке, коммутатор предназначен для работы в приложениях с критическими условиями окружающей среды, таких как наружное видеонаблюдение, промышленные сети, защищенные системы передачи данных.

## Основные характеристики

Полная поддержка коммутации L2 и статической маршрутизации L3  
Поддержка динамической маршрутизации L3  
512MB RAM, 64MB ROM  
18 портов 10/100/1000Base-T (16 802.3at PoE), 2 порта 100/1000/2500BASE-X SFP uplink  
PSE 36W на порт (802.3at) | Бюджет PoE 320W  
Корпус: защита IP30, монтаж на DIN-рейку, стену | без вентилятора  
Размеры: 152 x 107 x 84 мм | Рабочая температура: -40°C to +75°C



Размеры и внешний вид

## Информация для заказа

NIS-3500-3426PGE

Коммутатор L3 Managed: 16 10/100/1000T 802.3at PoE | 2 TP/1G + 2 1G/2.5G SFP uplink

> 16 портов 802.3at PoE > Монтаж на DIN-рейку, стену > L2+/L3 functions

## Технические характеристики

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards Compliance | IEEE 802.3 /u /z /ab /x /ad /D /w /p /Q /ad /af /at /ah /ag                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Interfaces           | RJ45 Ports: 18 x 10/100/1000 BASE-T ports ( auto negotiation speed, Full/Half duplex mode, and auto MDI/MDI-X connection)<br>PoE ports: 16 ports with 802.3af/at PoE injector function<br>SFP Slots: 2 x 100/1000/2500BASE-X (FX/ SX/ LX/ BX)<br>RJ45 console (115200, 8, N, 1) for basic management and setup<br>Alarm Relay Output 0.5A@24V<br>DI/DO interface (2xDI + 2xDO)<br>Reset Button (< 5 sec: System reboot; > 5 sec: Factory default)<br>LED Indicators: Power/Fault/Ring/R.O./DIDO/PoE/Ethernet/SFP |
| Data Transfer Rate   | Ethernet: 10 Mbps (half duplex), 20 Mbps (full duplex)<br>Fast Ethernet: 100 Mbps (half duplex), 200 Mbps (full duplex)<br>Gigabit: 1000 Mbps (half duplex), 2000 Mbps (full duplex)<br>2.5 G: 2500 Mbps (half duplex), 5000 Mbps (full duplex)                                                                                                                                                                                                                                                                  |
| Switching            | Switch Architecture: Store-and-Forward<br>Switch Fabric: 46 Gbps non-blocking<br>Throughput: 34.2 Mpps @ 64 bytes packet<br>MAC Table Size: 8 K, automatic source address learning / aging<br>Shared Data Buffer: 32 Mbits<br>Flow Control: IEEE 802.3x full duplex / Back pressure half duplex<br>Jumbo Frame: 10Kbytes                                                                                                                                                                                         |
| Power                | Input: 48 - 56 VDC, redundant inputs<br>Consumption: 27 W max. (without SFP & PDs)<br>2x6-pin removable terminal block<br>Grounding point                                                                                                                                                                                                                                                                                                                                                                        |
| PoE                  | PoE Pin Out Port 1-8: 1/2(+); 3/6(-) Mode A End-Span<br>Up to 36 W/port, Circuit protection prevents power interference<br>PD class detection<br>PoE budget setup option<br>PoE Power budget: up to 320 W @ 52~56V Power input<br>PoE port feeding priority / scheduling / sequence / recycling<br>Per port power limit<br>Automatic PD Reboot/ Alive check<br>PoE port status monitoring<br>Forced PoE / PoE Legacy mode / PoE extend up to 200m mode                                                           |
| Layer 3 Functions    | OSPFv2 IPv4 dynamic routing<br>IPv4/v6 hardware static routing<br>128 routing entries<br>Max. 128 VLAN IP interfaces                                                                                                                                                                                                                                                                                                                                                                                             |
| Port Configuration   | Port disable / enable / power saving mode<br>Auto-negotiation 10/100/1000Mbps full / half duplex selection<br>Flow control disable/enable                                                                                                                                                                                                                                                                                                                                                                        |

## Технические характеристики

|                  |                                                                                                                                                                                                                                                                                 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Port Status      | Speed/ Duplex mode/ Link status<br>Trunk/ Flow control/ Auto-negotiation status                                                                                                                                                                                                 |
| VLAN             | IEEE 802.1Q tag-based VLAN<br>IEEE 802.1ad Q-in-Q tunneling<br>Port-based VLAN<br>Voice VLAN<br>Private VLAN Edge (PVE)<br>MAC-based VLAN<br>Protocol-based VLAN<br>VLAN Translation<br>MVR (Multicast VLAN Registration)<br>GVRP<br>Up to 4K VLAN groups, out of 4094 VLAN IDs |
| QoS              | 8 priority queues per port<br>IEEE 802.1p CoS<br>Port number<br>802.1Q VLAN tag<br>DSCP/TOS field in IP packet<br>Strict priority and WRR policies<br>Per port bandwidth control (Ingress/ Egress)<br>DSCP remarking<br>Traffic-policing on the switch port                     |
| Multicast        | IGMP v1/v2/v3 Snooping<br>IPv4 IGMP querier mode support<br>IPv6 MLD (v1/v2) snooping<br>IPv6 MLD querier mode support<br>Up to 255 multicast groups                                                                                                                            |
| Link Aggregation | IEEE 802.3ad LACP<br>Cisco ether-channel (static trunk)<br>10 trunk groups with 4 ports per group<br>Up to 8Gbps bandwidth (duplex mode)                                                                                                                                        |
| Spanning tree    | 802.1D Spanning Tree Protocol (STP)<br>802.1w Rapid Spanning Tree Protocol (RSTP)<br>802.1s Multiple Spanning Tree Protocol (MSTP)<br>BPDU Filtering/BPDU Guard                                                                                                                 |
| Ring             | ITU-T G.8032 Ethernet Ring protection switching (ERPS)<br>Recovery time < 10ms                                                                                                                                                                                                  |
| Security         | ACL<br>IP/MAC based ACL<br>MAC Address/ IP Address/ Ethertype/ Protocol Type/ VLAN ID/ DSCP/ 802.1p Priority based<br>Up to 256 entries                                                                                                                                         |
|                  | AAA<br>RADIUS client<br>TACACS/TACACS+ client                                                                                                                                                                                                                                   |
|                  | Security<br>Port Security                                                                                                                                                                                                                                                       |
|                  |                                                                                                                                                                                                                                                                                 |

## Технические характеристики

|                       |                          |                                                                                                                                                                                                                                                                                                                 |
|-----------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Security              | Security                 | Dynamic ARP inspection<br>IP source guard<br>CLI authority control                                                                                                                                                                                                                                              |
|                       | Network Access Control   | IEEE 802.1x port-based network access control<br>MAC-based authentication<br>Local/RADIUS authentication                                                                                                                                                                                                        |
|                       | SSHv2                    |                                                                                                                                                                                                                                                                                                                 |
|                       | TLS v1.2                 |                                                                                                                                                                                                                                                                                                                 |
|                       | SNMP v3                  |                                                                                                                                                                                                                                                                                                                 |
|                       | Management & Diagnostics | IPv4 and IPv6 dual stack management<br>CLI, RS-232, Telnet, WEB interface<br>Firmware & configuration upload/download (Dual Images)<br>SNMP v1 and v2c switch management<br>Remote syslog<br>Local system log<br>RMON (Group 1, 2, 3 & 9)<br>IEEE 802.1AB-2005 Link Layer Discovery LLDP<br>DHCP Client/Server  |
| SNMP MIBs             |                          | RFC 1213 MIB-II, RFC 2863 IF-MIB, RFC 1493 Bridge MIB, RFC 1643 Ethernet MIB, RFC 2863 Interface MIB, RFC 2665 Ether-Like MIB, RFC 2737 Entity MIB, RFC 2819 RMON MIB (Groups 1, 2, 3 and 9), RFC 2618 RADIUS Client MIB, RFC 3411 SNMP-Frameworks-MIB, IEEE 802.1X PAE, LLDP, MAU-MIB, Power over Ethernet MIB |
| Port Mirroring        |                          | TX / RX / Both<br>Many-to-1 monitor                                                                                                                                                                                                                                                                             |
| ONVIF                 |                          | Device discovery/monitoring<br>Floor Map                                                                                                                                                                                                                                                                        |
| Industrial Protocols  |                          | Mod bus TCP for real-time monitoring in the SCADA system<br>IEEE 1588v2 PTP (Precision Time Protocol) transparent clock mode                                                                                                                                                                                    |
| Time Synchronization  |                          | NTP                                                                                                                                                                                                                                                                                                             |
| Housing               |                          | IP30 Protection, DIN Rail/ Wall mounting                                                                                                                                                                                                                                                                        |
| Operating Temperature |                          | - 40 to 75 °C (-40 to 167 °F)                                                                                                                                                                                                                                                                                   |
| Operating Humidity    |                          | Max. 95 % non-condensing                                                                                                                                                                                                                                                                                        |
| Dimensions            |                          | 152 x 107 x 84 mm                                                                                                                                                                                                                                                                                               |
| Weight                |                          | 1533 g                                                                                                                                                                                                                                                                                                          |
| Protection            |                          | Surge: 6KV/6KV (8/20 us), standard: IEC61000-4-5<br>ESD: 6KV contact / 15KV air, standard: IEC61000-4-2                                                                                                                                                                                                         |
| Regulatory Compliance |                          | FCC Part 15 Class A, CE                                                                                                                                                                                                                                                                                         |
| Stability Testing     |                          | IEC60068-2-32 (free fall), IEC60068-2-27 (shock), IEC60068-2-6 (vibration)                                                                                                                                                                                                                                      |
| Warranty              |                          | 3 years (up to 5 years)                                                                                                                                                                                                                                                                                         |