

Managed Industrial switch

> 16 ports PoE 30W > 2 SFP/1G + 2 TP/1G Uplink > G.8032 ERPSv2 Ring protection > 2 DI | 2 DO

The NSBox access Nodes are devised for the deployment of protected Outdoor Video Surveillance systems. The Nodes provide troubleproof operation of connected video cameras ranging from secure power supply, reliable data transmission, and protection of sensitive equipment from surges caused by lightning and grid power fluctuations. There is an ideal technological solution for time and money saving in any outdoor Video Surveillance projects for a large area ranging from highways, bridges, parking lots, airports, railways, sports facilities, hotels, parks, shopping malls, and construction sites.

The basic equipment of the NSBox-4161 includes: Wall mounting brackets, Mounting plate with DIN rails, terminal blocks, a two-pole circuit breaker, an electrical grounding bar, a fan with a thermostat, a set of cable glands. These modules can also be included in the assembly:

- Managed Industrial switch: uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W, G.8032 ERPSv2, DI/DO;
- Power Supply 55VDC-500W or UPS NR-48VDC-500VA with mounting kit for batteries 7Ah x4;
- Climatic control system inside enclosure: thermostats, Fan Heater, Thermoelectric Cooler/ Assembly;
- Fiber Optic Distribution Frame (ODF) for connecting optical fibers with FC adapters, pigtails, patch cords;
- Lightning and surge protection for Ethernet PoE ports and power circuits 220VAC.

The basic NSBox-4161 models are: NSBox-4161 | NSBox-4161H | NSBox-4161R | NSBox-4161HR

NSBox-4161 PX01F36F	Access Node: NSB-3860H2F1 enclosure with Fan, without Heater, with ODF; 55VDC-500W Power supply; NIS-3500-3426PGE Switch: uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W; Reboot PDs
NSBox-4161H PX01F36H	Access Node: NSB-3860H3F1 enclosure with Fan Heater, with ODF; 55VDC-500W Power supply; NIS-3500-3426PGE Switch: uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W for IP cameras; Reboot PDs
NSBox-4161R RX01F36F	Access Node: NSB-3860H2F1 enclosure with Fan, without Heater; UPS NR-48VDC-500VA with mounting kit for batteries 7Ah x4; NIS-3500-3426PGE Switch: uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W
NSBox-4161HR RX01F36H	Access Node: NSB-3860H3F1 enclosure with Fan Heater; UPS NR-48VDC-500VA with mounting kit for batteries 7Ah x4; NIS-3500-3426PGE Switch: uplink 2 SFP/1G + 2 TP/1G, 16 ports TP/1G PoE 30W

Technical Data

Input Voltage Power consumption	: 100 - 240VAC 500 W (no more)
Enclosure material (cabinet, door)	: Sheet steel, powder-coated, primed
Protection category IP/NEMA IK Code	: IP66 / NEMA4 IK08
Enclosure mounts	: Wall or pole mount with NSBon-01 kit
Operating temp. with thermal insulation	: -40°C to +60°C -50°C to +60°C
Dimensions (no cable glands)	: 380 x 600 x 210 mm
Shipping weight (approx.)	: 16 kg 26 kg for R models (with batteries)
Fiber Optic Distribution Frame (ODF)	: mounted with 4 FC adapters, pigtails, patch cords
Heater with thermostats (for H models)	: NSBon-18 option, Fan Heater
Uninterruptible Power Supply (for R models)	: NR-48VDC-500VA with mounting kit for batteries 7Ah x4



Hardware specification	Managed Industrial switch NIS-3500-3426PGE
16x 10/100/1000Base-T RJ45 PoE 30W	IEEE 802.3at / 802.3af (PD Alive Check)
2x 10/100/1000Base-T RJ45	Total PoE Budget 320W, PSE 30W/port, max 30W
2x 100/1000M SFP slots (with DDM)	G.8032 ERPSv2 Ring protection; 2 DI 2 DO

Management Interface Diagnostic
Console/CLI, Web GUI, Telnet, SNMP Syslog, VLAN mirroring, RMON, SNMP Trap
Network Protocols :
Spanning Tree: STP, RSTP, MSTP; Ring Topology: G.8032 ERPSv2, Chain; VLAN: Port-based, 802.1q tag-based, 802.1ad Q in Q; IGMP Snooping v1/v2/v3 & Querier; QoS: 802.1p, 8 queues per port, WRR/SPQ; DHCP Client, Server, Relay, Snooping, Option 82; 802.1ab LLDP ; Multicast/Broadcast/Flooding Storm Control ; Access Control: IP/ MAC-based/ 802.1x authentication; Security: HTTPs, SSH, Radius Client; NTP/SNTP;

