NSGate

Outdoor access Nodes NSBox

Managed Industrial switch

NSBox-4161

> 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 trouble proof operation of connected video cameras with a secure power supply, reliable data transmission, and protection of sensitive equipment from surges caused by lightning and power fluctuations. It is a perfect technology solution for time and money saving in any outdoor Video Surveillance projects for a large-scale area ranging from construction sites, parking lots, hotels, parks, shopping mall, sports facilities, airports, railways, bridges, and highways.

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;
- Fibre-optic distribution frame (ODF), complete with SC/LC adapters, pigtails, patch cords, and a mounting kit;
- 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 PD
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 PD
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)
Fibre-optic distribution frame (ODF)	: complete with SC/LC 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;