

Managed Industrial switch

> 4 ports PoE 36W

> 2 SFP/1G Uplink

> G.8032 ERPSv2 Ring protection

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-2040 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, 4 ports TP/1G PoE 36W for IP cameras;
- Power Supply 48VDC-150W or UPS CR-48VDC-155VA with mounting kit for batteries 2.2Ah 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-2040 models are: NSBox-2040 | NSBox-2040H | NSBox-2040R | NSBox-2040HR

NSBox-2040 PX15F33F	Access Node: NSB-3030F1 enclosure with Fan, without Heater, with ODF; 48VDC-150W Power supply; NIS-3500-2204PGE Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 36W; Reboot PDs
NSBox-2040H PX15F33H	Access Node: NSB-3030H1F1 enclosure with Fan Heater, with ODF; 48VDC-150W Power supply; NIS-3500-2204PGE Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 36W for IP cameras; Reboot PDs
NSBox-2040R RX15F38F	Access Node: NSB-3838F1 enclosure with Fan, without Heater; UPS CR-48VDC-155VA with mounting kit for batteries 2.2Ah x4; NIS-3500-2204PGE Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 36W; Reboot PDs
NSBox-2040HR RX15F38H	Access Node: NSB-3838H1F1 enclosure with Fan Heater; UPS CR-48VDC-155VA with mounting kit for batteries 2.2Ah x4; NIS-3500-2204PGE Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 36W; Reboot PDs

#### Technical Data



Input Voltage   Power consumption	: 100 - 240VAC   300 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)	: 300x300x210 or 380x380x210mm for R models
Shipping weight (approx.)	: 10 kg   15 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)	: CR-48VDC-155VA with mounting kit for batteries 2.2Ah x4
Hardware specification	Managed Industrial switch NIS-3500-2204PGE
4x 10/100/1000Base-T RJ45 PoE 30W	IEEE 802.3at / 802.3af (PD Alive Check)
2x 100/1000M SFP slots (with DDM)	Total PoE Budget 144W, PSE 30W/port, max 36W
	G.8032 ERPSv2 Ring protection;

#### 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;

