

Managed Industrial switch

> 4 ports PoE 36W

> 2 SFP/1G Uplink

> Polyester electrical enclosure | G.8032 ERPSv2

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.

Glass Reinforced Polyester enclosures, NSP-xyxy series are used for NSBox-p2040 access Nodes. The basic equipment 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 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, pigtailed, patch cords;
- Lightning and surge protection for Ethernet PoE ports and power circuits 220VAC.

In order to include additional modules in assembling of Nodes needs to select Optional Accessories NSBon-xx.

NSBox-xxxxR with UPS are delivered without preset Batteries, only mounting kit for Batteries 7 | 15 | 45Ah is included.

The basic NSBox-p2040 models are: NSBox-p2040 | NSBox-p2040H | NSBox-p2040R | NSBox-p2040HR

NSBox-p2040 GX15F34F	Access Node: NSP-3040F1 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-p2040H GX15F34H	Access Node: NSP-3040H1F1 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-p2040R UX15F44F	Access Node: NSP-4040F1 enclosure with Fan, without Heater; UPS CR-48VDC-155VA with mounting kit for batteries 7Ah x4; NIS-3500-2204PGE Switch: uplink 2 SFP/1G, 4 ports TP/1G PoE 36W; Reboot PDs
NSBox-p2040HR UX15F44H	Access Node: NSP-4040H1F1 enclosure with Fan Heater; UPS CR-48VDC-155VA with mounting kit for batteries 7Ah 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)	: Glass Reinforced Polyester (GRP)
Protection category IP/NEMA   IK Code	: IP66 / NEMA4   IK10
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)	: 300x400x200 or 400x400x200mm for R
Shipping weight (approx.)	: 10 kg   18 kg for R (with batteries)
Fiber Optic Distribution Frame (ODF)	: mounted with 4 FC adapters, pigtailed, 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 7Ah 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;

