Solar Powered Cabinets and access Nodes

✓ **Autonomous/semi-autonomous applications**
✓ **Extended temperature range and IP66 protection**
✓ **Renewable energy powered**
✓ **Different PoE types supported**

NSBox-SUN Outdoor Access Node is used to deploy protected autonomous or semi-autonomous outdoor Ethernet networks (IP video surveillance networks etc.) in the area with no 24/7 electricity available and solar panels can be installed. Typical application for NSBox-SUN is IP surveillance system that is powered from street lighting where AC power is available only at the night time. NSBox-SUN can be even used if there is no AC power at all if PDs connected to it have low power consumption that can be filled up with energy the sun provides during the day time.

It is a ready-to-use outdoor solution based on advanced industrial Ethernet switch. It contains embedded battery controller that maintains the proper charge of the battery to prevent overcharging and deep discharge and a solar panel controller that supports 12-18V panels up to 50W. NSBox-SUN can be equipped with 12V battery up to 50 AH and can use 220 VAC power or a solar panel as a power source. It consists of the switch with embedded battery and solar panel controller itself and a 24VDC-500W power supply installed into NSB-xxxxxx IP66 outdoor cabinet with door of sheet steel, spray-finished with mounting plate and gland plate in the base. NSB-xxxxxx cabinet in turn contains a circuit breaker, can contain fan and heater managed by thermostats and an ODF with pigtails and path cords required to connect NSBox-SUN to fiber optic cables. If a heater or an ODF is not required, NSBox-SUN can be ordered without it.

NSBox-SUN provides connection of up to 5 PoE video cameras or other PoE PD devices using fiber optic or wireless UpLink. NSBox-SUN can provide PoE to different types of PDs including 60W Hi-Power PoE, 30W PoE and passive 24V DC PoE equipment like that from Ubiquiti, Mikrotik etc.

Technical Data

Power: 12-18V Solar Pannel/100-240VAC	Uplink: 1000Base-X SFP / LTE / WiFi
Battery: 12V up To 50 AH	Operating Temp.: -40 to +50°C
Solar Pannel: 12-18V Up to 50W	Dimensions: depends on the model
PoE: 5 802.3at 60W/ 30W // Passive 24V	Weight: Up to 25 kg
PoE Budget: 120 W	Protection type: IP66