



MOXA NSwitch

Industrial Ethernet Switch for factory floor applications

Overview

MOXA NSwitch is an Industrial Ethernet Switch designed to work well on the factory floor. This means that you no longer need to run multiple strands of wiring back to climate controlled areas, and the switch works reliably in extreme temperatures. It has a space saving compact size that allows it to fit into out of the way places, and its dual-direction DIN-rail mounting makes it easy to install alongside Ethernet I/O devices, PLCs, and other automation equipment. MOXA NSwitch also comes with redundant power inputs, greatly increasing its reliability.

Switches are often used to divide LANs into *collision domains*, a particularly important concept for automation, since it is often necessary to create a deterministic network that can predictably transmit sensor and actuator signals between important manufacturing equipment.

MOXA NSwitch comes with five 10/100BaseT(X) ports, and can play an important role in setting up your industrial Ethernet network. It is designed to deliver the high degree of reliability demanded by industrial environments, which differs markedly from the typical office LAN environment. In the office, a 3-minute failure of an Ethernet switch could be passed off as a minor inconvenience, whereas in the factory floor setting, the same 3 minutes could cause a tremendous loss in investment. In some cases, using a less reliable office switch could even cause a major tragedy, such as an explosion that leads to loss of life.

MOXA NSwitch is an excellent Industrial Ethernet Switch solution, giving you the needed factory floor reliability that a commercial switch cannot provide.

Features

- Extended operating temperature, from 0°C to 70°C, suitable for industrial applications
- Redundant power inputs for the ultimate in network and system reliability
- Compact size and rugged steel DIN Rail or panel mount enclosure for quick assembly in factory floor environments

- High MTBF, for longer continuous operation
- 5 RJ45 ports support auto-sensing of 10/100 Mbps and full/half duplex, for very easy installation
- Class I, Div. 2 Hazardous Location Certification

Benefits

- High reliability; outperforms commercial Ethernet switches

- Minimizes wiring headaches
- High performance; easy to use

Applications

- Factory floor Ethernet networks
- Harsh environment industrial Ethernet networks
- All Ethernet field device connections (Ethernet I/O, HMI)

MOXA NSwitch

Specifications

Interface

RJ45 ports	5 ports for 10/100BaseT(X)
LED Indicators	Power, Self-test, Link, ACT

Technology

Standards	IEEE802.3u, IEEE802.3
Performance	Auto Negotiation speed and F/H duplex mode for each RJ45 10/100BaseT(X) port
Processing type	Store and Forward, with IEEE802.3x full duplex, non-blocking flow control
Address Table size	4K nodes

Power

Input Voltage	10 – 30 VDC (regulated)
Input Current	0.25A @ 24 VDC
Input Ripple	Less than 100 mV
Input Wire Size	16 – 28 AWG

Mechanical

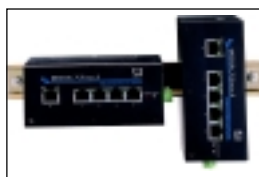
Dimensions (W x D x H)	12.95 x 7.87 x 5.84 cm
Weight	0.6 Kg

Environment

Operating temperature	0 – 70°C
Storage temperature	-20 – 85°C
Ambient Relative Humidity	10 – 90% (non-condensing)
Operating altitude	up to 10,000 ft (3,048 m)
Regulatory approvals	UL, CUL, CE, FCC
WARRANTY	Five years

Ordering Information

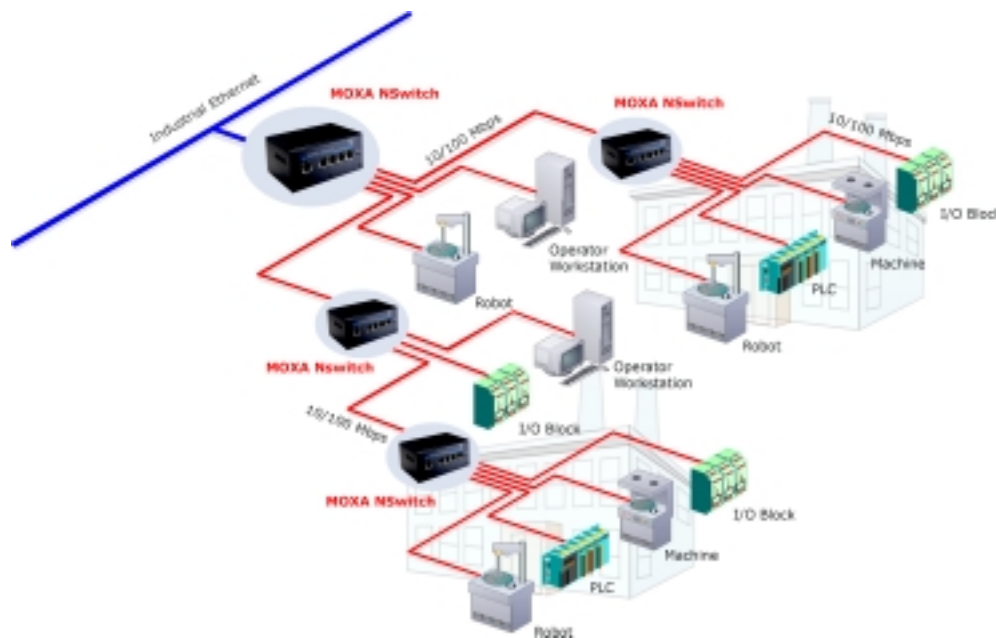
FS5005	<ul style="list-style-type: none">Industrial Ethernet Switch with 5 10/100BaseTX portsUser's Manual
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DIN Rail mountable



Rear Panel



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