

### NW6000-7001 Standard Switch

## NW6000-7501 **PoF** Switch

When ancillary products such as cable, connectors and switches do not meet maritime environmental requirements, the ability of a major product to meet various performance and environmental standards is compromised.

Introducing the Netwave NW6000-7001 standard 10 port switch and the NW6000-7501 managed PoE+ switch with 4 Gb slots + 8 PoE+ slots. Two types of Ethernet switch, each EMC certified and designed to withstand environmental and physical influences. The NW6000-7001 standard switch and the NW6000-7501 PoE+ switch are IEC-60945 compliant and meet maritime environmental requirements.



## NW6000-7001 (standard switch)

The NW6000-7001 is a Certified Managed Industrial 10 port switch which is well suited for industrial network applications.

The switch is designed to meet the requirements for data transmission over Ethernet cable appliances and devices. The switch's rugged IP30 aluminum case and hardened components withstand in operating temperatures from -40°C to 75°C.

The NW6000-7001 features 8 x 10/100 Base-TX + 2 x 100FX/Gigabit SFP ports.

The NW6000-7001 switch guarantees reliable operation in critical environments where vibration and shock are commonplace. Gigabit backbone and redundant ring increase the reliability of the communications and reduce cabling and wiring costs. Additionally covering operating temperature, power input voltage, surge, ESD, and vibration, as well as conformal coating and power insulation, making the switches suitable for a variety of applications.

The switch is tested against the harshest maritime conditions and meet IEC 60945 standards. They have proven to withstand the EMC, environmental and physical influences encountered in the maritime world.

### **Features**

#### NW6000-7001 (standard switch)

- Managed switch allowing for management and monitoring of traffic on LAN
- 8 x 10/100 Base-TX + 2 x 100FX/Gigabit SFP ports
- Ruggedised housing with mounting bracket, IEC 60945 approved
- Certified by leading notified body for maritime use

## NW6000-7501 (PoE switch)

The NW6000-7501 is a Managed Industrial PoE+ Switch is perfectly suited for industrial network applications which require managed devices offering hassle-free fiber deployment, it is an ideal solution to deploy in automation as well as surveillance systems.

The switch is designed to meet the requirements of both power and data transmission over single Ethernet cable to PoE appliances and devices without the need for power outlets, eliminating additional cost of electrical cabling and circuits. The switch's rugged IP30 aluminum case and hardened components withstand in operating temperatures from -40°C to 75°C.

The NW6000-7501 features 4 Gigabit SFP slots to insert fiber port which is immune to moisture, static electricity, power surges and short circuits, plus 8 10/100/1000Base-T PoE+ ports. Each of the PoE ports complies with the IEEE 802.3at standard allowing them to supply up to 30W to satisfy the growing demand of high-power consuming network devices such as WLAN AP, VoIP phones and IP surveillance cameras, and other powered devices in longer distances up to 100 meters with Cat 5e cables.

The NW6000-7501 switch guarantees reliable operation in critical environments where vibration and shock are commonplace. Gigabit backbone and redundant ring increase the reliability of the communications and reduce cabling and wiring costs. Additionally covering operating temperature, power input voltage, surge, ESD, and vibration, as well as conformal coating and power insulation, making the switches suitable for a variety of applications.

The switches are tested against the harshest maritime conditions and meet IEC 60945 standards. They have proven to withstand the EMC, environmental and physical influences encountered in the maritime world.

#### NW6000-7501 (PoE switch)

- Managed PoE+ switch allowing for management and monitoring of traffic on LAN
- 8 x 10/100 Base-TX + 4 x GBe SFP (fibre) ports
- PoE ports comply with IEE 802.3at standards for 30W
- Ruggedised housing with mounting bracket, IEC 60945 approved
- Certified by leading notified body for maritime use

# **Technical Specifications**

	NW6000-7001 (standard switch) IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/FX IEEE 802.3z 1000Base-SX/LX IEEE 802.3a Port trunk with LACP IEEE 802.3x Flow Control IEEE 802.1d Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1p Class of Service IEEE 802.1q VLAN Tagging IEEE 802.1ab Link Layer Discovery Protocol IEEE 802.1x Port Authentication		NW6000-7501 (PoE+ switch)IEEE 802.3 10Base-TIEEE 802.3u 100Base-TXIEEE 802.3ab 1000Base-TXIEEE 802.3z 1000Base-SX/LXIEEE 802.3x Flow ControlIEEE 802.1D Spanning Tree ProtocolIEEE 802.1w Rapid Spanning Tree ProtocolIEEE 802.1w Rapid Spanning Tree ProtocolIEEE 802.1s Multiple Spanning Tree ProtocolIEEE 802.1v VLAN TaggingIEEE 802.1v Port AuthenticationIEEE 802.1x Port AuthenticationIEEE 802.1AB Link Layer Discovery ProtocolIEEE 802.3ad Port Trunk with LACPIEEE 1588v2 Precision Time ProtocolIEEE 802.3af Power over Ethernet (PoE)IEEE 802.3at High Power over Ethernet (PoE+)ITU-T G.8032	
IEEE standards				
Performance	Switching fabric L2 Forwarding MAC Entries Jumbo frame	5.6 Gbps 4.17 Mpps 16 K 10 K	Switching fabric L2 Forwarding Packet Buffer size MAC Entries Jumbo frame Throughput	24 Gbps 17.86 Mpps 8 Mbits 16 K 10 K 1,488,000 pps when 1000 Mbps spee
Ports	8 x 10/100Base-TX (RJ-45) 2 x 100/1000 SFP 1 x RJ-45 Console		8 x 10/100/1000Base-T (PSE) 4 x Gigabit SFP ports 1 x Console port (RJ-45 to RS232) 1 x USB port	
Mechanical and environmental	Dimension (WxHxD) Weight Mounting Housing Operating temperature Storage temperature Operating humidity Storage humidity	50x161.5x122.2 mm (1.97x6.36x4.81 inch) 780 g DIN-Rail IP30 protection -40°C to 75°C -40°C to 85°C 10% to 95% RH 5% to 95% R	Dimension (WxHxD) Weight Mounting Housing Operating temperature Storage temperature Operating humidity Storage humidity	50x161.5x122.2 mm (1.97x6.36x4.81 inch) 955 g DIN-Rail IP30 protection -40°C to 75°C -45°C to 85°C 10% to 95% RH (Non-Condensing) 5% to 95% RH (Non-Condensing)
Power			Input Voltage: Connection: Overload current protection Reverse Polarity Protection Relay output System-power consumption	<ul> <li>Primary inputs 24~57 VDC at a maximum of 6A</li> <li>Redundant inputs 24~57 VDC at a maximum of 6 A</li> <li>1 x Removable 6-pin terminal block</li> <li>Support</li> <li>Support</li> <li>1 x with current carrying capacity of 1 A @ 24 VDC</li> <li>18 W</li> </ul>
PoE			Power Available at PD Max Power delivered by PSE Voltage Range (at PSE) Voltage Range (at PD) Maximum Current Maximum Cable resistance Output capacity for PoE PoE supported mode Note:	25.50 W 30 W 24-57 V 50-57 V 600 mA 12.5 Ω (Category 5) 240 W (48 VDC), 120W (24 VDC) Mode A

### Dimension (WxHxD)

(1.97x6.36x4.81 inch)

50 mm 122.2 mm

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Specifications subject to change or improvement without notice
NW 06.23 lss1

PoE budget at 24 V input is 120 W. If all the 8 ports are connected, then power delivered by PSE is 15W. If only 4 ports are connected, then power delivered by PSE is 30 W