

FL SWITCH SMN 6TX/2FX SM - Industrial Ethernet Switch



2989556

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Smart Managed Narrow Switch (SMN) with six 10/100 Mbps RJ45 ports and two 100 Mbps single mode SC format fiber optic ports

Product description

The Smart Managed Narrow switch (SMN) is an Ethernet switch suitable for industrial applications with six Fast Ethernet ports in RJ45 format and two single-mode Fast Ethernet FO ports in SC format

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2989556 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | DNN122 |
| GTIN | 4046356478304 |
| Weight per piece (including packing) | 848.5 g |
| Weight per piece (excluding packing) | 777 g |
| Country of origin | DE |

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Technical data

Dimensions

| | |
|--------|--------|
| Width | 57 mm |
| Height | 133 mm |
| Depth | 125 mm |

Material specifications

| | |
|-------|---------------|
| Color | gray aluminum |
|-------|---------------|

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

Interfaces

Ethernet (RJ45)

| | |
|-------------------------------|--|
| Connection method | RJ45 |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed | 10/100 Mbps |
| Transmission physics | Copper |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Supply voltage, data transmission, error, link, activity |
| No. of channels | 6 (RJ45 ports) |

Ethernet FO

| | |
|----------------------|--|
| Connection method | SC |
| Transmission speed | 100 Mbps (full duplex) |
| Transmission physics | Single-mode fiberglass |
| Transmission length | 36000 m (fiberglass with F-G 9/125 0.36 dB/km) 32000 m (fiberglass with F-G 9/125 0.4 dB/km) 26000 m (fiberglass with F-G 9/125 0.5 dB/km) |
| Wavelength | 1300 nm |
| Signal LEDs | Data receive, link status |
| No. of channels | 2 (SC single mode) |

Serial (RS-232)

| | |
|-------------------|---|
| Connection method | RS-232-C, 6-pos. MINI-DIN socket (PS/2) |
|-------------------|---|

Product properties

| | |
|----------------|--------------------|
| Product type | Switch |
| Product family | Managed Switch SMN |
| Type | Block design |

Switch functions

| | |
|----------------------|-----------------------------------|
| Diagnostic functions | RMON History N:1-Portmirroring |
|----------------------|-----------------------------------|

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| | |
|----------------------------------|--|
| | LLDP (Link Layer Discovery Protocol) |
| | SNMP-Traps |
| Basic functions | Store-and-forward switch complies with IEEE 802.3 4 priority classes in acc. with IEEE 802.1 P TCP/IP protocol, BootP-capable, port-mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), PROFINET Device, Media Redundancy Protocol (MRP). |
| Signal contact control voltage | 24 V (typical) |
| Signal contact control current | 100 mA |
| PROFINET conformance class | Conformance Class B |
| PROFINET device function | PROFINET device |
| | Fast Startup |
| Filter functions | Quality of Service (4 priority classes) |
| | Port-Priorisierung |
| | VLAN |
| | IGMP Snooping (128 groups) |
| | IGMP Query |
| | Auto-Query-Port |
| | Extended Multicast Filtering |
| | Static Multicast Filtering |
| Management | Web-based management (HTTP) |
| | SNMP v1/v2 |
| | Serial interface (V.24) |
| Redundancy | MRP (Media Redundancy Protocol) |
| | RSTP (Rapid Spanning Tree Protocol) |
| | FRD (Fast Ring Detection) |
| | Large Tree Support |
| Status and diagnostic indicators | LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex) |
| Supported browsers | Internet Explorer 5.5 or higher |
| Additional functions | BootP |
| | DHCP-Client |
| Time synchronization | SNTP |

Security functions

| | |
|--------------------------------------|--|
| Basic functions | Store-and-forward switch complies with IEEE 802.3 4 priority classes in acc. with IEEE 802.1 P TCP/IP protocol, BootP-capable, port-mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), PROFINET Device, Media Redundancy Protocol (MRP). |
| Link Layer Discovery Protocol (LLDP) | As per protocol 802.2 |

Electrical properties

| | |
|---|--------|
| Maximum power dissipation for nominal condition | 7.8 W |
| Transmission medium | Copper |
| | FO |

Supply

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| | |
|-----------------------------|--|
| Supply voltage (DC) | 24 V DC (redundant) |
| Supply voltage range | 18 V DC ... 32 V DC |
| Power supply connection | Via COMBICON, max. conductor cross-section 2.5 mm ² |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |
| Typical current consumption | 325 mA (at U _S = 24 V DC) |

Function

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|--------------------------------|----------------|
| Signal contact control voltage | 24 V (typical) |
| Signal contact control current | 100 mA |

Connection data

| | |
|-----------------------------------|---|
| Connection method | Screw connection |
| Conductor cross-section, rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section, flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |
| Stripping length | 7 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | 0 °C ... 55 °C (non-condensing) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |
| Vibration (operation) | in acc. with IEC 60068-2-6: 5g, 150 Hz |
| Air pressure (operation) | 86 kPa ... 108 kPa (2000 m above mean sea level) |
| Air pressure (storage/transport) | 66 kPa ... 108 kPa (3500 m above sea level) |

EMC data

| | |
|-------------------------------|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise immunity | EN 61000-6-2:2005 |

Noise emission

| | |
|-----------------------|-----------------------------|
| Standards/regulations | EN 61000-6-4:2007 + A1:2011 |
|-----------------------|-----------------------------|

System properties

Functionality

| | |
|-----------------|--|
| Basic functions | Store-and-forward switch complies with IEEE 802.3 4 priority classes in acc. with IEEE 802.1 P TCP/IP protocol, BootP-capable, port-mirroring, integrated web server function, multicast filtering, IGMP snooping, VLAN, Rapid Spanning Tree (RSTP), PROFINET Device, Media Redundancy Protocol (MRP). |
|-----------------|--|

System requirements

| | |
|--------------------|---------------------------------|
| Supported browsers | Internet Explorer 5.5 or higher |
|--------------------|---------------------------------|

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Signaling

Status display

LEDs: US1, US2 (power supply), Fail (alarm contact), 2 LEDs per Ethernet port (Link and switchable Activity/Speed/Duplex)

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43222612 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|----------------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(a)-I, 6(c), 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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