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Narrow Ethernet switch, wide temperature range, five RJ45 ports with 10/100/1000 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

Your advantages

- ✓ Auto negotiation and autocrossing detection simplifies installation and setup
- ☑ RJ45 ports support a transmission speed of 10/100/1000 Mbps
- ☑ QoS-prioritized (Quality of Service) messages
- ☑ PROFINET Conformance Class A for real-time data exchange
- ☑ Energy-efficient Ethernet in accord. with IEEE 802.3az
- ☑ PROFINET PTCP filter for reliable communication on PROFINET networks
- ☑ Enhanced traffic prioritization for automation protocols
- ☑ Jumbo frame support (frame size up to 9216 bytes/frame)



Key Commercial Data

| Packing unit | 1 pc |
|--------------------------------------|-----------|
| Weight per Piece (excluding packing) | 300.000 g |
| Country of origin | Taiwan |

Technical data

Note

| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|
|-------------------------|---|

Dimensions

| Width | 22.5 mm |
|--------|---------|
| Height | 117 mm |
| Depth | 84 mm |



Technical data

Ambient conditions

| Degree of protection | IP30 |
|--|---|
| Ambient temperature (operation) | -40 °C 75 °C |
| Ambient temperature (storage/transport) | -40 °C 85 °C |
| Permissible humidity (operation) | 5 % 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % 95 % (non-condensing) |
| Air pressure (operation) | 79 kPa 108 kPa up to 2000 m above mean sea level (Without derating) |
| Air pressure (storage/transport) | 79 kPa 108 kPa up to 2000 m above mean sea level (Without derating) |

Interfaces

| Interface | Ethernet (RJ45) |
|-------------------------------|-----------------------------------|
| No. of ports | 5 (RJ45 ports) |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission physics | Ethernet in RJ45 twisted pair |
| Transmission speed | 10/100/1000 Mbps |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Data receive, link status |

Function

| Basic functions | Unmanaged switch |
|----------------------------------|---|
| | Autonegotiation |
| | Store and Forward switching mode |
| Additional functions | 100 BASE-TX/100BASE-FX (IEEE 802.3u) |
| | Jumbo frames (Max. 9,216 bytes) |
| | Quality of Service (QoS) prioritization (IEEE 802.1p) |
| | Energy-efficient Ethernet (IEEE 802.3az) |
| | Gigabit Ethernet 1000BASE-T (IEEE 802.3ab) |
| | 10Base-T (IEEE 802.3) |
| MAC address table | 4k |
| PROFINET conformance class | Conformance-Class A |
| Status and diagnostic indicators | LEDs: U _s , link and activity per port |

Network expansion parameters

| Cascading depth | Network, linear, and star structure: any |
|---|--|
| Maximum conductor length (twisted pair) | 100 m |

Supply voltage

| Supply voltage | 24 V |
|-----------------|--|
| | 24 V AC (50/60 Hz) |
| Residual ripple | 3.6 V _{PP} (within the permitted voltage range) |



Technical data

Supply voltage

| Supply voltage range | 9 V DC 32 V DC |
|-----------------------------|----------------------------|
| | 18 V AC 30 V AC (50/60 Hz) |
| Typical current consumption | 34 mA |
| Max. current consumption | 98 mA |

General

| Mounting type | DIN rail |
|------------------|--|
| Net weight | 222 g |
| Housing material | Polycarbonate fiber reinforced |
| | Aluminum / steel sheet DC01 |
| MTTF | 97.6 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
| | 888.3 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 818.3 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |

Connection data

| Connection method | Push-in spring connection |
|---------------------------------------|---------------------------|
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 2.5 mm² |
| Conductor cross section flexible min. | 0.2 mm² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 12 |
| Stripping length | 10 mm |

Standards and Regulations

| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
|------------------------------------|--|
| Interference emission | EN 61000-6-2 EN 61000-4-8 (electromagnetic fields) Criterion A |
| Conducted noise emission | EN 61000-6-2 Class A |
| Immunity to surge | EN 61000-6-2 EN 61000-4-5 (surge) Criterion B |
| Immunity to burst | EN 61000-6-2 EN 61000-4-4 (EFT burst) Criterion A |
| Immunity to EF | EN 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A |
| Immunity to ESD | EN 61000-6-2 EN 61000-4-2 (ESD) Criterion B |
| Immunity to conducted interference | EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A |
| Type of test | Free fall in accordance with EN 61131-2 |
| Noise emission | EN 61000-6-4:2007 + A1:2011 |
| Noise immunity | EN 61000-6-2:2005 |
| Vibration (storage/transport) | 5g, 150 Hz, in acc. with IEC 60068-2-6 |
| Vibration (operation) | in acc. with IEC 60068-2-6: 5g, 150 Hz |

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Technical data

Standards and Regulations

| Shock (operation) | 30g (EN 60068-2-27) | |
|----------------------------------|---------------------|--|
| Environmental Product Compliance | | |
| REACh SVHC | Lead 7439-92-1 | |

Classifications

eCl@ss

| eCl@ss 10.0.1 | 19170402 |
|---------------|----------|
| eCl@ss 11.0 | 19170402 |
| eCl@ss 9.0 | 19170106 |

UNSPSC

| UNSPSC 18.0 | 43222612 |
|-------------|----------|
| UNSPSC 19.0 | 43222612 |
| UNSPSC 20.0 | 43222612 |
| UNSPSC 21.0 | 43222612 |

Accessories

Accessories

Assembly adapter

Mounting plate - FL DIN-RAIL ADAPTER 22.5 - 1085485



The FL DIN-RAIL ADAPTER 22.5 is designed to allow products 22.5 mm wide to be mounted flush to a standard 35 mm DIN rail, in any orientation.

Mounting plate - FL PANEL ADAPTER 22.5 - 1085488



The FL PANEL ADAPTER 22.5 is designed to allow products 22.5 mm wide to be mounted flush to a panel, in any orientation.

Data cable preassembled



Accessories

Patch cable - NBC-R4AC-R4AC-IE8A/.../... - 1411854



Patch cable, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6_A, cable outlet: straight, Ethernet

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/2,0 - 1408360



Patch cable, $CAT6_A$, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 2.0 m

Patch cable - NBC-R4AC/10G-R4AC/10G-94F/3,0 - 1408365



Patch cable, CAT6_A, 4-pair, shielded, connection not crossed (line), assembled at both ends with RJ45/IP20 connectors, outer sheath material: PUR, length: 3.0 m

End block

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

Patch cable

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m



Accessories

Patch cable - FL CAT5 PATCH 1.0 - 2832276



Patch cable, CAT5, assembled, 1 m

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

PCB plug

PCB connector - FKCT 2,5/ 3-ST KMGY BD:US,GND - 1087544



PCB connector, nominal cross section: 2.5 mm², color: light gray, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of rows: 1, number of positions: 3, product range: FKCT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: CLASSIC COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard

Printed-circuit board connector - FKCT 2,5/ 3-ST KMGY - 1998263



PCB connector, nominal cross section: 2.5 mm², color: light gray, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Tin, type of contact: Female connector, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: FKCT 2,5/..-ST, pitch: 5 mm, connection method: Push-in spring connection, conductor/PCB connection direction: 0 °, locking clip: - Locking clip, plug-in system: CLASSIC COMBICON, Locking: without, mounting: without, type of packaging: packed in cardboard

Protective cap



Accessories

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

Surge protection for information technology

Surge protection device - DT-LAN-CAT.6+ - 2881007



Surge protection in accordance with Class E_A (CAT6_A), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE++ / 4PPoE) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

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