

Industrial Ethernet Switch - FL SWITCH 1008N - 1085256

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Narrow Ethernet switch, eight RJ45 ports with 10/100 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

Your advantages

- ✓ Auto negotiation and autocrossing detection simplifies installation and setup
- ✓ Local diagnostic indicators with LEDs
- ✓ RJ45 ports support a transmission speed of 10/100 Mbps
- ✓ QoS-prioritized (Quality of Service) messages
- ✓ PROFINET conformance Class A for real-time data exchange
- ✓ PROFINET PTCP filter for reliable communication on PROFINET networks
- ✓ Enhanced traffic prioritization for automation protocols



COMPLETE RoHS
RECYCLED

Key Commercial Data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 pc |
| Weight per Piece (excluding packing) | 260.000 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 | 140.4 mm |
| Depth | 92 mm |
| Note on dimensions | 147.5 mm with connector |

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Technical data

Ambient conditions

| | |
|------------------------------------------|-------------------------------------------------------------------------|
| Degree of protection | IP30 |
| Ambient temperature (operation) | -10 °C ... 60 °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 | 8 (RJ45 ports) |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission physics | Ethernet in RJ45 twisted pair |
| Transmission speed | 10/100 Mbps |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Data receive, link status |

Function

| | |
|----------------------------------|-------------------------------------------------------------------------------------------------|
| Basic functions | Unmanaged switch / auto negotiation, complies with IEEE 802.3, store and forward switching mode |
| Additional functions | Autonegotiation |
| MAC address table | 2k |
| 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) |
| Supply voltage range | 9 V DC ... 32 V DC |
| | 18 V AC ... 30 V AC (50/60 Hz) |
| Typical current consumption | 28 mA |
| Max. current consumption | 173 mA |

General

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

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Technical data

General

| | |
|------------------|-------------------------------------------------------------------------------------------------------|
| Type AX | Stand-alone |
| Net weight | 173 g |
| Housing material | Polycarbonate |
| MTTF | 133.9 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
| | 1254 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 1196 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 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| 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 |
| Shock (operation) | 30g (EN 60068-2-27) |

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 19170402 |
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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 8.0 | 19170106 |
| eCl@ss 9.0 | 19170106 |

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC000734 |
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Approvals

Approvals

Approvals


EAC / IECEE CB Scheme / UL Listed / cUL Listed / IECEE CB Scheme / UL Listed / cUL Listed / KC

Ex Approvals


UL Listed / cUL Listed / cULus Listed


Approval details

| | | | |
|-----|-------------------------------------------------------------------------------------|--|--------------------------|
| EAC |  | | RU *- DE.A*08.B.00731 |
|-----|-------------------------------------------------------------------------------------|--|--------------------------|

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| IECEE CB Scheme |  | http://www.iecee.org/ | DK-91138-UL |
|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------|

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|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 140403 |
|-----------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

| | | | |
|------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 140403 |
|------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

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|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------|
| IECEE CB Scheme |  | http://www.iecee.org/ | DK-91246-UL |
|-----------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------|

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Approvals

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|-----------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|-----------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

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|------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

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|----|--|-----------------------------------------------------------------------------------------|-----------------|
| KC | | http://eng.kcc.go.kr/user/ehpMain.do | R-R-PCK-1085256 |
|----|--|-----------------------------------------------------------------------------------------|-----------------|

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

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



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

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Accessories

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

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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

Printed-circuit board connector - FKCT 2,5/ 3-ST KMGY BD:US,GND - 1087544



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 3, pitch: 5 mm, connection method: Push-in spring connection, color: light gray, contact surface: Tin

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



PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 3, pitch: 5 mm, connection method: Push-in spring connection, color: light gray, contact surface: Tin

Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991



Dust protection caps for RJ45 socket

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Accessories

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+) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.
