

Industrial Ethernet Switch - FL SWITCH 1105N - 1085254

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Narrow Ethernet switch, 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
- ✓ Local diagnostic indicators with LEDs
- ✓ 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) | 220.000 g |
| Country of origin | Taiwan |

Technical data

Note

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

Dimensions

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|--------|---------|
| Width | 22.5 mm |
| Height | 117 mm |

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Dimensions

| | |
|-------|-------|
| Depth | 84 mm |
|-------|-------|

Ambient conditions

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|--|---|
| 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 | 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

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|----------------------------------|---|
| 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 | 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 |
|----------------|------|

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Supply voltage

| | |
|-----------------------------|--|
| | 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 | 38 mA |
| Max. current consumption | 311 mA |

General

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|------------------|--|
| Mounting type | DIN rail |
| Net weight | 135 g |
| Housing material | Polycarbonate fiber reinforced |
| MTTF | 87.5 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
| | 1058 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 951 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

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|------------------------------------|--|
| 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 |

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Standards and Regulations

| | |
|-------------------------------|--|
| 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) |
| UL, USA | UL 61010-1 |
| UL, USA / Canada | Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, IIC T4 |

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
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Classifications

eCl@ss

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

ETIM

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| ETIM 7.0 | EC000734 |
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UNSPSC

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

Approvals

Approvals

Approvals

IECEE CB Scheme / UL Listed / cUL Listed / CC-Link IE Field / UL Listed / IECEE CB Scheme / cUL Listed / EAC / KC

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

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Approvals

| | | | |
|------------------|--|---|--------------------------|
| IECEE CB Scheme | | http://www.iecee.org/ | DK-91246-UL |
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| CC-Link IE Field | | | Ref. No. 215 |
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140403 |
| IECEE CB Scheme | | http://www.iecee.org/ | DK-91138-UL |
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140403 |
| EAC | | | RU *- DE.A*08.B.00731 |
| KC | | http://eng.kcc.go.kr/user/ehpMain.do | R-R-PCK-1085254 |