# FL SWITCH 1708 - Industrial Ethernet Switch

1196228

https://www.phoenixcontact.com/us/products/1196228

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

CRA-READY



Unmanaged Switch 1000 series, 8 M12 ports 10/100/1000 Mbps, degree of protection: IP65/IP66/IP67, Ambient temperature (operation): -40 °C ... 75 °C, Supply voltage range: 9 V DC ... 57 V DC, Extended temperature range, The product is being prepared for compliance with the Cyber Resilience Act (CRA)

## Your advantages

- QoS-prioritized (Quality of Service) messages
- Jumbo frame support (frame size up to 9216 bytes/frame)
- Local diagnostic indicators with LEDs
- Enhanced traffic prioritization for automation protocols
- PROFINET PTCP filter for reliable communication on PROFINET networks
- PROFINET Conformance Class A for real-time data exchange
- Auto negotiation and autocrossing detection simplifies installation and setup

ELEKTROGERÄTE RÜCKNAHME

## Commercial data

| | |
|---|---|
| Item number | 1196228 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN19 |

| | |
|---|---|
| Product key | DNN114 |
| GTIN | 4063151253684 |
| Weight per piece (including packing) | 1,142 g |
| Weight per piece (excluding packing) | 1,110 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

# Technical data

## Dimensions

| | |
|---|---|
| Width | 60 mm |
| Height | 226 mm |
| Depth | 46 mm |

## Notes

| | |
|---|---|
| Note on application | Only for industrial use |
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

## Material specifications

| | |
|---|---|
| Color (Housing) | zinc color |
| Housing material | Die-cast zinc |

## Mounting

| | |
|---|---|
| Mounting type | Panel mounting |

## Interfaces

### Ethernet

| | |
|---|---|
| Connection method | M12 connector, X-coded |
| Note on the connection method | Auto negotiation and autocrossing |
| Transmission speed | 10/100/1000 Mbps |
| Transmission physics | Copper |
| Transmission length | 100 m (per segment) |
| Signal LEDs | Data receive, link status |
| No. of channels | 8 (M12 ports) |

## Product properties

| | |
|---|---|
| Product type | Switch |
| Product family | Unmanaged Switch 1000 |
| Type | Stand-alone |
| MTTF | 56.6 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%) |
| | 621 Years (SN 29500 standard, temperature 25°C, operating cycle 21%) |
| | 460.2 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| Special properties | Extended temperature range |
| | The product is being prepared for compliance with the Cyber Resilience Act (CRA) |

### Switch functions

| | |
|---|---|
| MAC address table | 4k |
| Status and diagnostic indicators | LEDs: US1, US2 (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed) |
| Basic functions | Store-and-forward switch, complies with IEEE 802.3 |
| Additional functions | 100 BASE-TX/100BASE-FX (IEEE 802.3u) |
| | Jumbo frames (max. 9,600 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) |

## Electrical properties

| | |
|---|---|
| Local diagnostics | US1/2 Supply voltage US1, US2 Green LED |
| | LINK Link status Green LED |
| Transmission medium | Copper |

Supply

| | |
|---|---|
| Supply voltage (DC) | 24 V DC (redundant) |
| Supply voltage range | 9 V DC ... 57 V DC |
| Residual ripple | 3.6 $V_{PP}$ (within the permitted voltage range) |
| Max. current consumption | 390 mA (9 V DC) |
| Typical current consumption | 142 mA |

## Connection data

Power supply

| | |
|---|---|
| Connection method | M12 connector, A-coded |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| | IP66 |
| | IP67 |
| Ambient temperature (operation) | -40 °C ... 75 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |
| Shock (operation) | 30g (EN 60068-2-27) |
| Vibration (operation) | in acc. with IEC 60068-2-6: 5g, 150 Hz |
| 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) |

## Standards and regulations

| | |
|---|---|
| Free from substances that could impair the application of coating | Yes |

## EMC data

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Conformance with EMC directives | EN 61000-6-2 EN 61000-4-2 (ESD) Criterion B |
| | EN 61000-6-2 EN 61000-4-3 (electromagnetic fields) Criterion A |
| | EN 61000-6-2 EN 61000-4-4 (EFT burst) Criterion A |
| | EN 61000-6-2 EN 61000-4-5 (surge) Criterion B |
| | EN 61000-6-2 EN 61000-4-6 (line noise immunity) Criterion A |
| | EN 61000-6-2 EN 61000-6-4 (interference) Class A |
| | EN 61000-6-2 EN 61000-6-4 (conducted interference) Class A |
| Noise immunity | EN 61000-6-2:2019 |

Noise emission

| | |
|---|---|
| Standards/regulations | EN_61000-6-4:2019 |

## Signaling

| | |
|---|---|
| Status display | LEDs: US1, US2 (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed) |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1196228

**cULus Listed**
Approval ID: E238705

**CC-Link IE Field**
Approval ID: NRT-IF-00057

**CC-Link IE Field**
Approval ID: NRT-IF-00057

**cULus Listed**
Approval ID: E238705

**CC-Link IE Field**
Approval ID: NRT-IT-00066

**CC-Link IE Field**
Approval ID: NRT-IT-00066

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 19170402 |
| ECLASS-15.0 | 19170402 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC000734 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 43222600 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 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.) | Lead(CAS: 7439-92-1) |
| SCIP | 4a3966a6-6256-49cc-8de7-1421021d1cbb |

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com