FL SWITCH 1708 - Industrial Ethernet Switch

1196228

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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

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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

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