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Industrial Ethernet Switch - FL SWITCH 2108 - 2702666

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Managed Switch 2000, 8 RJ45 ports 10/100/1000 Mbps, Degree of protection IP20

Why buy this product

- ☑ Unmanaged Mode
- ☑ Configuration memory
- ☑ RSTP
- ☑ DHCP client, DHCP server (port-based)
- ☑ VLANs
- ☑ MRP client
- ☑ Web-based management, SNMP
- ☑ Slim design

RoHS

Ethernet

Key Commercial Data

Packing unit	1
GTIN	4 055626 283418
GTIN	4055626283418

Technical data

Note

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

Dimensions

Width	45 mm
Height	130 mm

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Technical data

Dimensions

Depth	115 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C
Ambient temperature (storage/transport)	0 °C ... 60 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)
Air pressure (operation)	86 kPa ... 108 kPa (1500 m above sea level)
Air pressure (storage/transport)	86 kPa ... 108 kPa (1500 m above sea level)

Interfaces

Interface 1	Ethernet (RJ45)
No. of ports	8 (RJ45 ports)
Connection method	RJ45
Note on connection method	Auto negotiation and autocrossing
Transmission physics	Copper
Transmission speed	10/100/1000 Mbps
Transmission length	100 m (per segment)
Signal LEDs	Data receive, link status

Function

Basic functions	Store-and-forward switch, complies with IEEE 802.3
Management	Web-based management (HTTP/HTTPS)
	SNMPv1/v2/v3
	Command-line interface (Telnet, SSH)
Diagnostic functions	RMON History
	LLDP (Link Layer Discovery Protocol)
	SNMP-Traps
	N:1-Portmirroring
	ACD (Address Conflict Detection)
Filter functions	Quality of Service (4 priority classes)
	Port-Priorisierung
	VLAN (up to 8 VLANs)
	IGMP Snooping (32 groups)
	IGMP Query
	Auto-Query-Port
	Extended Multicast Filtering
MAC address table	8k

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Function

Redundancy	MRP (Media Redundancy Protocol)
	RSTP (Rapid Spanning Tree Protocol)
IP parameterization	DHCP-Client
	DHCP server (port based)
	BootP
PROFINET IO conformance class	Conformance-Class A
Status and diagnostic indicators	LEDs: US (power supply), 2 LEDs per Ethernet port (Link/Activity and Speed)

Network expansion parameters

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

Supply voltage

Supply voltage	24 V DC (single)
Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Supply voltage range	18.5 V DC ... 30.5 V DC
Typical current consumption	275 mA (at U_S = 24 V DC)
Current consumption	275 mA

General

Mounting type	DIN rail
Type AX	Book type
Net weight	0 g
Housing material	Polycarbonate fiber reinforced

Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	16
Stripping length	9 mm

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Developed in acc. with standard	IEC 61000-6-2
Test standard	IEC 61000-4-2 (ESD)

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Standards and Regulations

Test result	Criterion B
Test standard	EN 61000-4-3 (electromagnetic fields)
Test result	Criterion A
Test standard	IEC 61000-4-4 (burst)
Test result	Criterion A
Test standard	IEC 61000-4-5 (surge)
Test result	Criterion A
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test result	Criterion A
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Vibration (storage/transport)	2g, criterion 1 according to IEC 60068-2-6
Free from substances that could impair the application of coating	Yes
Vibration (operation)	2g, according to IEC 60068-2-6

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 4.0	27250501
eCl@ss 4.1	27250501
eCl@ss 5.0	27250501
eCl@ss 5.1	27250501
eCl@ss 6.0	27250501
eCl@ss 7.0	27250501
eCl@ss 8.0	19170106
eCl@ss 9.0	19170106

ETIM

ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734

UNSPSC

UNSPSC 6.01	43172015

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Classifications

UNSPSC

UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43222612

Approvals

Approvals

Approvals

EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

Approval details

EAC		RU C-DE.A*30.B00767

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

cULus Listed		

Accessories

Accessories

Assembly adapter

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Accessories

Adapter - FL DIN RA - 2891053

The FL DIN RA is installed in a standard, 19-inch rack (EIA-310-D, IEC 60297-3-100) to allow DIN rail mounted equipment to be rack mounted.

Drivers and interfaces

Software - FL SNMP OPC AGENT V3 - 2701136

SNMP-OPC agent, German and English, for integrating OPC-based automation solutions in company-wide network management systems

Software - FL SNMP OPC SERVER V3 - 2701139

SNMP-OPC server, German and English, for monitoring and configuration of SNMP-capable equipment in HMI and SCADA systems

End block

End clamp - E/NS 35 N - 0800886

End clamp, width: 9.5 mm, color: gray

Network management software

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Accessories

Software - FL VIEW 32 LITE - 2701744

FL VIEW, SNMP-based software in English, for the detection and display of Ethernet networks. 32 nodes (network devices) can be monitored in one Class C subnetwork with this version.

Parameterization memory

Memory - SD FLASH 512MB - 2988146

Program and configuration memory, plug-in, 512 Mbyte.

Program / configuration memory - SD FLASH 2GB - 2988162

Program and configuration memory

Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991

Dust protection caps for RJ45 socket

Software - IPASSIGN - 2701094

IPAssign is an easy to use tool for setting the IP address of devices which rely on BOOTP. No installation or administrative rights are required to use IPAssign.

This product is free and only available from the "Downloads" tab.

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Accessories

Printed-circuit board connector - FK-MCP 1,5/ 5-ST-3,81 GY - 1884005

Plug component, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 5, Pitch: 3.81 mm, Connection method: Push-in spring connection, Color: gray, Contact surface: Tin