Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

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Wide-temperature Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

Your advantages

- Local diagnostic indicators with LEDs
- Alarm contact for power supply and link status diagnostics
- The switch also offers cable locking and port blocking
- QoS-prioritized (Quality of Service) messages
- Wide operating temperature range (-40°C ... +75°C)
- RJ45 ports support a transmission speed of 10/100 Mbps; fiber optic ports support 100 Mbps

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 457194
GTIN	4046356457194
Weight per Piece (excluding packing)	480.000 g
Custom tariff number	85176200
Country of origin	Taiwan

Technical data

Note

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

Dimensions

Width	30 mm

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Technical data

Dimensions

Height	130 mm
Depth	100 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 75 °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)	62 kPa ... 108 kPa (up to 4160 m above mean sea level)
Air pressure (storage/transport)	62 kPa ... 108 kPa (up to 4160 m above mean sea level)

Interfaces

Interface	Ethernet (RJ45)
No. of ports	4 (RJ45 ports)
Note on the connection method	Auto negotiation and autocrossing
Transmission physics	Ethernet in RJ45 twisted pair
Transmission speed	10/100 Mbps
Interface	Fiber optic interface
No. of ports	1 (SC multi-mode)
Transmission physics	multi-mode fiberglass
Transmission speed	100 Mbps (full duplex)
Transmission length	12.1 km (fiberglass with F-G 62.5/125 0.7 dB/km F1000)
	3.3 km (fiberglass with F-G 62.5/125 2.6 dB/km F600)
	7.1 km (fiberglass with F-G 50/125 0.7 dB/km F1200)
	3.1 km (fiberglass with F-G 50/125 1.6 dB/km F800)
Wavelength	1300 nm

Function

Basic functions	Unmanaged switch / autonegotiation, complies with IEEE 802.3, store and forward switching mode, includes QoS and alarm contact
Additional functions	Autonegotiation
Status and diagnostic indicators	LEDs: U_{S1}, U_{S2} (redundant voltage supply), 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 DC (redundant)

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

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Supply voltage

Residual ripple	3.6 V_{PP} (within the permitted voltage range)
Supply voltage range	9 V DC ... 32 V DC
Typical current consumption	180 mA (at U_S = 24 V DC)
Max. current consumption	565 mA (@9 V DC)

General

Mounting type	DIN rail
Type AX	Block design
Net weight	475.8 g
Housing material	Aluminum
MTTF	79.7 Years (MIL-HDBK-217F standard, temperature 25°C, operating cycle 100%)

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Conformance	CE-compliant
ATEX	# II 3 G Ex nA nC IIC T4 Gc
IECEx	Ex nA nC IIC T4 Gc
UL, USA/Canada	Class I, Div. 2, Groups A, B, C, D

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Classifications

eCl@ss

eCl@ss 10.0.1	19170402
eCl@ss 4.0	27250500
eCl@ss 4.1	27250500
eCl@ss 5.0	19030100
eCl@ss 5.1	19030100
eCl@ss 6.0	19170100
eCl@ss 7.0	19170106
eCl@ss 8.0	19170106

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Classifications

eCl@ss

eCl@ss 9.0	19170106

ETIM

ETIM 2.0	EC000734
ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734
ETIM 6.0	EC000734
ETIM 7.0	EC000734

UNSPSC

UNSPSC 6.01	43172901
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43222612
UNSPSC 18.0	43222612
UNSPSC 19.0	43222612
UNSPSC 20.0	43222612
UNSPSC 21.0	43222612

Approvals

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BV / LR / ABS / BSH / UL Listed / cUL Listed / EAC / EAC / DNV GL / cULus Listed

Ex Approvals

IECEx / ATEX / UL Listed / cUL Listed / cULus Listed

Approval details

BV		http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials	22935/C0 BV

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Approvals

LR		http://www.lr.org/en	10/20002
ABS		http://www.eagle.org/eagleExternalPortalWEB/	19-HG1928426-PDA
BSH			627
UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 140324
EAC			RU *-DE.A*08.B.00739
EAC			RU*-DE.*.B.00741/19
DNV GL		https://approvalfinder.dnvgl.com/	TAA00002HR
cULus Listed			

Accessories

Accessories

Assembly adapter

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Accessories

Mounting plate - FL PA SFNT 5-8 - 2891012

Mounting plate for SFNT switches

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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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

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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

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Patch cable - NBC-R4AC/1,0-93B/R4AC - 1408968

PROFINET patch cable, shielded, star-quad, 22 AWG stranded (7-wire), green, straight RJ45 male connector/IP20 to straight RJ45 male connector/IP20, length: 1.0 m

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Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Accessories

Patch cable - NBC-R4AC/2,0-93B/R4AC - 1408969

PROFINET patch cable, shielded, star quad, 22 AWG stranded (7-wire), green, straight RJ45 plug/IP20, to straight RJ45 plug/IP20, length: 2 m

Patch cable - NBC-R4AC/5,0-93B/R4AC - 1408970

PROFINET patch cable, shielded, star quad, 22 AWG stranded (7-wire), green, straight RJ45 plug/IP20 to straight RJ45 plug/IP20, length: 5 m

FO patch cable - FOC-LC:PA-SC:PA-OM2:D01/1 - 1115607

FO patch cable - FOC-LC:PA-SC:PA-OM2:D01/2 - 1115605

FO patch cable - FOC-SC:PA-SC:PA-OM2:D01/1 - 1115536

Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 1 m

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Accessories

FO patch cable - FOC-SC:PA-SC:PA-OM2:D01/2 - 1115535

Multi-mode OM2 duplex jumper, SC-SC, UPC polishing, length 2 m

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FO patch cable - FOC-ST:PA-SC:PA-OM2:D01/1 - 1115574

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 1 m

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FO patch cable - FOC-ST:PA-SC:PA-OM2:D01/2 - 1115573

Multi-mode OM2 duplex jumper, ST-SC, UPC polishing, length 2 m

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FO patch cable - FOC-LC:PA-SC:PA-OM4:D01/1 - 1115601

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 1 m

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FO patch cable - FOC-LC:PA-SC:PA-OM4:D01/2 - 1115600

Multi-mode OM4 duplex jumper, LC-SC, UPC polishing, length 2 m

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Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Accessories

FO patch cable - FOC-SC:PA-SC:PA-OM4:D01/1 - 1115424

Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 1 m

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FO patch cable - FOC-SC:PA-SC:PA-OM4:D01/2 - 1115423

Multi-mode OM4 duplex jumper, SC-SC, UPC polishing, length 2 m

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End block

End clamp - E/NS 35 N - 0800886

End clamp, width: 9.5 mm, color: gray

Mounting rail adapter

DIN rail 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.

Patch cable

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Accessories

Patch cable - FL CAT5 PATCH 0,5 - 2832263

Patch cable, CAT5, assembled, 0.5 m

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 - MSTB 2,5/ 6-ST - 1754520

PCB connector, nominal current: 12 A, rated voltage (III/2): 320 V, nominal cross section: 2.5 mm², number of positions: 6, pitch: 5 mm, connection method: Screw connection with tension sleeve, color: green, contact surface: Tin

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Protective cap

Dust protection - FL RJ45 PROTECT CAP - 2832991

Dust protection caps for RJ45 socket

Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX - 2891004

Accessories

Safety locking

Port Guard Security Element - FL SEC PAC 4TX - 2832865

Layer1 security elements for four RJ45 network connections for use with patch boxes and panels

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.

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