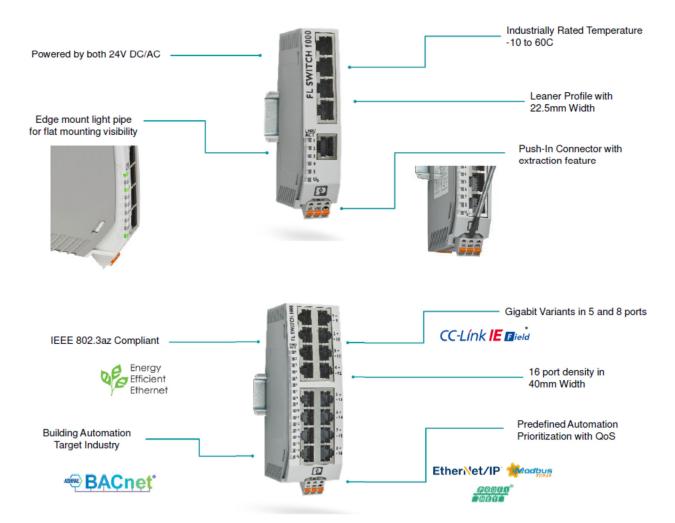




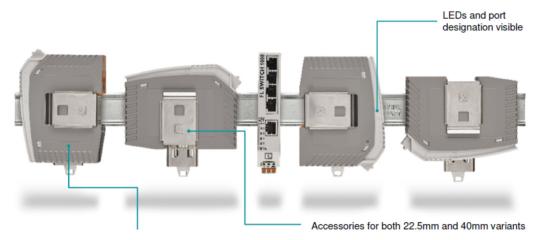
Tel. 705 682 2828 Email sales@chesscontrols.com

## FL SWITCH 1000 Series Product Features



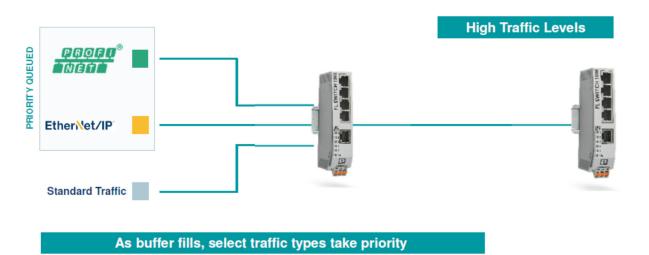


## **Product Mounting**



Mounting capable in 5 different orientations

## Prioritization of Automation Protocols (IEEE 802.1Q)



FL SWITCH 1000 Series

## new

new

# Product Technical Data – Copper and Gigabit versions

Description	FL SWITCH 1005N	FL SWITCH 1008N	FL SWITCH 1016N	FL SWITCH 1105N	FL SWITCH 1108N
Article	1085039	1085256	1085255	1085254	1085243
Ports	5 RJ45	8 RJ45	16 RJ45	5 RJ45	8 RJ45
Speed	10/100 Mbit/s	10/100 Mbit/s	10/100 Mbit/s	10/100/1000 Mbit/s	10/100/1000 Mbit/s
Input Voltage	9-32V DC and 18-30V AC				
Temperature Range	- 10 to 60C	-10 to 60C	-10 to 60C	-10 to 60C	-10 to 60C
Dimensions (W x H x D)	22.5 x 117 x 84 mm	22.5 x 140.4 x 92 mm	40 x 140.4 x 92mm	22.5 x 117 x 84 mm	22.5 x 140.4 x 92 mm

## FL SWITCH 1000 Series

# Product Technical Data – Fiber Optic and Gigabit versions

Description	FL SWITCH 1004N-FX	FL SWITCH 1004N-FX ST	FL SWITCH 1004N-FX SM	FL SWITCH 1004N-SFX	FL SWITCH 1005N-2SFX	FL SWITCH 1104N-SFP	FL SWITCH 1105N-2SFP
Article	1084159	1085179	1085214	1085177	1085176	1085173	1085171
Ports	4 RJ45, 1FX	4 RJ45, 1 FX ST	4 RJ45, 1 FX SM	4 RJ45, 1 SFX	5 RJ45, 2 SFX	4 RJ45, 1 SFP	5 RJ45, 2 SFP
Speed	10/100 Mbit/s	10/100/1000 Mbit/s	10/100/1000 Mbit/s				
Input Voltage	9-32V DC and 18-30V AC						
Temperature Range	-10 to 60C						
Dimensions (W x H x D)	22.5 x 117 x 84 mm	22.5 x 140.4 x 92mm	22.5 x 117 x 84 mm	22.5 x 140.4 x 92mm			

Please see following pages for overview of all unmanaged switches available from Phoenix Contact.

#### Industrial Ethernet Switch - FL SWITCH 1005N - 1085039



loads + Technical data Down

## Industrial Ethernet Switch - FL SWITCH 1004N-FX - 1084159

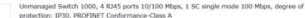
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Technical data

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 or 100 Mbps (RJ45), autocrossing function

Narrow Ethernet switch, five R345 ports with 10/100 Mbps on all ports, automatic data

transmission speed detection, autocrossing function, and QoS

## Industrial Ethernet Switch - FL SWITCH 1004N-FX SM - 1085214



Narrow Ethernet switch, eight R345 ports with 10/100 Mbps on all ports, automatic data

Unmanaged Switch 1000, 4 RJ45 ports 10/100/1000 Mbps, 1 SFP ports 100/1000 Mbps, degree

transmission speed detection, autocrossing function, and QoS

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#### Industrial Ethernet Switch - FL SWITCH 1008N - 1085256



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#### Industrial Ethernet Switch - FL SWITCH 1104N-SFP - 1085173

of protection: IP30, PROFINET Conformance-Class A



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## Industrial Ethernet Switch - FL SWITCH 1105N-2SFP - 1085171



Unmanaged Switch 1000, 5 RJ45 ports 10/100/1000 Mbps, 2 SFP ports 100/1000 Mbps, degree of protection: IP30, PROFINET Conformance-Class A

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## Industrial Ethernet Switch - FL SWITCH 1001T-4POE-GT - 1026937



PoE+ Ethernet switch conforms to IEEE 802.3at. Includes four 10/100/1000 Mbps PoE+ ports, one standard 10/100/1000 Mbps RJ45 port, a total PoE system budget of 120 W, and jumbo frames up to 10240 bytes

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## Industrial Ethernet Switch - FL SWITCH 1000T-8POE-GT-2SFP - 1026929

PoE+ Ethernet switch conforms to IEEE 802.3at. Includes eight 10/100/1000 Mbps PoE+ ports, two 1000 Mbps SFP ports, a total PoE system budget of 120 W, and jumbo frames up to 9600 bytes.

PoE+ Ethernet switch conforms to IEEE 802.3at. Includes two 10/100/1000 Mbps PoE+ ports,

two 100/1000 Mbps SFP ports, a total system budget of 60 W, and jumbo frames up to 10240

Mbps data transmission rate, coupling of network segments with different transmission spe

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## Industrial Ethernet Switch - FL SWITCH 1000T-2POE-GT-2SFP - 1026765



bytes

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## Industrial Ethernet Switch - FL SWITCH 1605 M12 - 2700200



auto crossing function, 1P67 protection ▶ Do nioads • Technical data

#### Industrial Ethernet Switch - FL SWITCH 1924 - 2891057

Ethernet switch, 24 Ethernet ports on the front in R145 format, automatic detection of 10, 100 or 1000 Mbps data transmission rate, coupling of network segments with different trans speeds, auto crossing function, installs in 19-in. (482 mm) rack

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## Industrial Ethernet Switch - FL SWITCH SFNB 5TX - 2891001

Ethernet switch, 5 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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 or 100 Mbps (RJ45), autocrossing function



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## Industrial Ethernet Switch - FL SWITCH SFNB 4TX/FX - 2891027



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#### Industrial Ethernet Switch - FL SWITCH 1005N-2SFX - 1085176

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protection: IP30, PROFINET Conformance-Class A

Ethernet switch, four RJ45 ports, one ST fiber port



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## Industrial Ethernet Switch - FL SWITCH 1004N-SFX - 1085177

Narrow Ethernet switch, four R345 ports with 10/100 Mbps on all ports, one SFP port with 100 Mbps, automatic data transmission speed detection, autocrossing function, and QoS

Unmanaged Switch 1000, 5 RJ45 ports 10/100 Mbps, 2 SFP ports 100 Mbps, degree of



+ Dos

#### Industrial Ethernet Switch - FL SWITCH 1016N - 1085255

transmission speed detection, autocrossing function, and QoS

mission speed detection, autocrossing function, and QoS



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#### Industrial Ethernet Switch - FL SWITCH 1105N - 1085254



Narrow Ethernet switch, five RJ45 ports with 10/100/1000 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS

Narrow Ethernet switch, eight R345 ports with 10/100/1000 Mbps on all ports, automatic data

Narrow Ethernet switch, sixteen RJ45 ports with 10/100 Mbps on all ports, automatic data

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## Industrial Ethernet Switch - FL SWITCH 1108N - 1085243



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## Industrial Ethernet Switch - FL SWITCH 1001T-4POE-GT-SFP - 1026932



PoE+ Ethernet switch conforms to IEEE 802.3at. Includes four 10/100/1000 Mbps PoE+ ports. one standard 10/100/1000 Mbps R345 port, one 1000 Mbps SFP port, a total PoE system budget of 120 W, and jumbo frames up to 10240 bytes.

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#### Industrial Ethernet Switch - FL SWITCH 1001T-4POE - 2891064



PoE+ Ethernet switch conforms to IEEE 802.3at. Includes four PoE+ ports and one standard RJ45 port, all with 10/100 Mbps speeds.

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#### Industrial Ethernet Switch - FL SWITCH 1008E - 2891065



Ethernet switch with eight RJ45 ports, meets IEC 61850-3 and IEEE 1613 standards. Automatic detection of data transmission speed of 10/100 Mbps (RJ45) with autocrossing function.

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#### Industrial Ethernet Switch - FL SWITCH 1824 - 2891041



Ethernet switch, 24 Ethernet ports on the front in RJ45 format, automatic detection of 10 or 100 Mbps data transmission rate, coupling of network segments with different transmission spee auto crossing function, installs in 19-in. (482 mm) rack

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## Industrial Ethernet Switch - FL SWITCH 1708 M12 POE - 2701883



segments with different transmission speeds, autocrossing function, degree of protection IP67

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## Industrial Ethernet Switch - FL SWITCH SFNB 8TX - 2891002

Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function



## Industrial Ethernet Switch - FL SWITCH SFNB 4TX/FX ST - 2891028



H

Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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PoE+ Ethernet switch. 8 Ethernet ports in M12 format, automatic detection of the data transmission speed of 10/100/1000 Mbps, jumbo frames up to 9600 bytes, coupling of network





#### Industrial Ethernet Switch - FL SWITCH SFNB 4TX/FX SM20 - 2891029



fiberglass, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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## Industrial Ethernet Switch - FL SWITCH SFN 8TX-24VAC - 2891020



Mbps (R)45), autocrossing function mloads + Technical data

#### Industrial Ethernet Switch - FL SWITCH SFN 8TX-NF - 2891022

Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, flow control disabled

Ethernet switch, 6 TP R345 ports, 2 FO ports, 100 Mbps full duplex in SC-D format, automatic

Ethernet Switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST-D format, automatic

Ethernet switch, five TP-RJ45 ports with 10/100/1000 Mbps on all ports, automatic detection of

data transmission speed of 10/100/1000 Mbps (RJ45), autocrossing function, and QoS.

detection of data transmission speed of 10 or 100 Mbps (R345), autocrossing function

detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, flow

Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, single mode

Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100



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## Industrial Ethernet Switch - FL SWITCH SFN 6TX/2FX-NF - 2891024



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control disabled

## Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX ST - 2891110



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#### Industrial Ethernet Switch - FL SWITCH SFN 5GT - 2891444



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#### Industrial Ethernet Switch - FL SWITCH SFN 6TX/2FX ST - 2891411



Ethernet switch, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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## Industrial Ethernet Switch - FL SWITCH SFN 4TX/FX - 2891851

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 or 100 Mbps (RJ45), autocrossing function

Ethernet Switch, 16 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100

Ethernet switch, 14 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100



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## Industrial Ethernet Switch - FL SWITCH SEN 16TX - 2891933 Mbps (RJ45), autocrossing function



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## Industrial Ethernet Switch - FL SWITCH SFN 14TX/2FX - 2891935



Mbps (R145), autocrossing function. Two FO ports in SC format.

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### Industrial Ethernet Switch - FL SWITCH SFN 5TX-PN - 2891151 Ethernet switch, five TP RJ45 ports, automatic detection of data transmission speed of 10 or 100



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## Industrial Ethernet Switch - FL SWITCH SF 14TX/2FX - 2832593



Ethernet Switch, 14 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function,

Ethernet Switch, 15 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic

detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

Mbps (RJ45), autocrossing function. The multicast filter will block PROFINET PTCP-Delay traffic





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### Industrial Ethernet Switch - FL SWITCH SFN 5TX-24VAC - 2891021

Mbps (RJ45), autocrossing function

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Ethernet switch, 5 TP R345 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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## Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX-NF - 2891023



Ethernet switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, flow control disabled

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#### Industrial Ethernet Switch - FL SWITCH SFN 7TX/FX - 2891097



Ethernet Switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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#### Industrial Ethernet Switch - FL SWITCH SFN 5TX - 2891152



Ethernet switch, 5 TP R345 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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#### Industrial Ethernet Switch - FL SWITCH SFN 6TX/2FX - 2891314



## Industrial Ethernet Switch - FL SWITCH SFN 4TX/FX ST - 2891453



Ethernet switch, 4 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function



## Industrial Ethernet Switch - FL SWITCH SFN 8TX - 2891929



Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function

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#### Industrial Ethernet Switch - FL SWITCH SFN 15TX/FX - 2891934



Ethernet switch, 15 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function. One FO port in SC format.

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#### Industrial Ethernet Switch - FL SWITCH SEN 8TX-PN - 2891018



Ethernet switch, eight TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function. The multicast filter will block PROFINET PTCP-Delay traffic.

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## Industrial Ethernet Switch - FL SWITCH SF 7TX/FX ST - 2832577



Ethernet Switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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## Industrial Ethernet Switch - FL SWITCH SF 4TX/3FX ST - 2832603



Ethernet switch, 4 TP RJ45 ports, 3 FO ports, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), auto crossing function

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#### Industrial Ethernet Switch - FL SWITCH SF 6TX/2FX ST - 2832674



Ethernet switch, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in ST-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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Ethernet switch, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function Downloads F Technical data

#### Industrial Ethernet Switch - FL SWITCH SF 7TX/FX - 2832726



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## Industrial Ethernet Switch - FL SWITCH SF 16TX - 2832849

Ethernet Switch, 16 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

Ethernet Switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in SC-D format, automatic

detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function



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## Industrial Ethernet Switch - FL SWITCH SFNT 5TX - 2891003



Wide-temperature Ethernet switch, 5 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

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#### Industrial Ethernet Switch - FL SWITCH SFNT 8TX - 2891005



Wide-temperature Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

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#### Industrial Ethernet Switch - FL SWITCH SFNT 7TX/FX ST - 2891007



Wide-temperature Ethernet switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST format, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames

Wide-temperature Ethernet switch, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in ST-D

function, autocrossing function, reads QoS priority messages, accepts security frames

format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing





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#### Industrial Ethernet Switch - FL SWITCH SFNT 5GT-C - 2891391



Wide-temperature Ethernet switch, five TP RJ45 ports, automatic detection of data transmission speed of 10/100/1000 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames. Conformal coating for harsh environments.

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#### Industrial Ethernet Switch - FL SWITCH SFNT 14TX/2FX - 2891954

Wide temperature Ethernet switch, 14 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function. Two FO ports in SC format.

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## Industrial Ethernet Switch - FL SWITCH SFNT 4TX/FX-C - 2891044



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, autocrossing function, reads QoS priority messages, accepts security frames. Conformal coating for harsh environments.

#### Industrial Ethernet Switch - FL SWITCH SFNT 7TX/FX ST-C - 2891047



#### Industrial Ethernet Switch - FL SWITCH 1000-8POE-GT - 1102079

Conformal coating for harsh environments.

PoE+ Ethernet switch conforms to IEEE 802.3at. Includes eight 10/100/1000 Mbps PoE+ ports, a total PoE system budget of 120 W, and jumbo frames up to 9216 bytes.

Wide-temperature Ethernet switch, 7 TP RJ45 ports, 1 FO port, 100 Mbps full duplex in ST

function, autocrossing function, reads QoS priority messages, accepts security frames.

format, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing



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## Mounting plate - FL PA SFNT 5-8 - 2891012

Mounting plate for SFNT switches

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Ethernet Switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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#### Industrial Ethernet Switch - FL SWITCH SF 6TX/2FX - 2832933



Ethernet Switch, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function

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#### Industrial Ethernet Switch - FL SWITCH SENT 4TX/FX - 2891004



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

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#### Industrial Ethernet Switch - FL SWITCH SFNT 7TX/FX - 2891006



Wide-temperature Ethernet switch, 7 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

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## Industrial Ethernet Switch - FL SWITCH SFNT 6TX/2FX - 2891025



Wide-temperature Ethernet switch, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, autocrossing function, reads QoS priority messages, accepts security frames

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#### Industrial Ethernet Switch - FL SWITCH SFNT 5GT - 2891390



Wide-temperature Ethernet switch, five TP RJ45 ports, automatic detection of data transmission speed of 10/100/1000 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames.

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#### Industrial Ethernet Switch - FL SWITCH SENT 16TX - 2891952



High temperature Ethernet switch, 16 TP RJ45 ports, automatic detection of data transmission speed of 10/ 100 Mbps (RJ45), autocrossing function

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## Industrial Ethernet Switch - FL SWITCH SFNT 5TX-C - 2891043



Wide-temperature Ethernet switch, 5 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, reads QoS priority messages, accepts security frames. Conformal coating for harsh environments.

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#### Industrial Ethernet Switch - FL SWITCH SFNT 8TX-C - 2891045



Wide-temperature Ethernet switch, 8 TP RJ45 ports, automatic detection of data transmission speed of 10/100 Mbps (RJ45), autocrossing function, autocrossing function, reads QoS priority messages, accepts security frames. Conformal coating for harsh environments.

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#### Industrial Ethernet Switch - FL SWITCH SFNT 6TX/2FX-C - 2891048



Wide-temperature Ethernet switch, 6 TP RJ45 ports, 2 FO ports, 100 Mbps full duplex in SC-D format, automatic detection of data transmission speed of 10 or 100 Mbps (RJ45), autocrossing function, autocrossing function, reads QoS priority messages, accepts security frames. Conformal coating for harsh environments.

#### Industrial Ethernet Switch - FL SWITCH 1001-4POE-GT - 1102077



PoE+ Ethernet switch conforms to IEEE 802.3at. Includes four 10/100/1000 Mbps PoE+ ports, one standard 10/100/1000 Mbps RJ45 port, a total PoE system budget of 120 W, and jumbo frames up to 9216 bytes.



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Rail adapter for vertical installation

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Tel. 705 682 2828 Email <u>sales@chesscontrols.com</u>