Low-cost port expansion underpinned by Hirschmann quality:
The new SPIDER family.

- Entry-level industrial switches at office prices
- Expandable to 8 ports
- 4TX/1FX with fiber port
- Compact design, DIN Rail compatible
- Plug & Play, 24 V DC and IP 30 protection
Hirschmann is now serving supersaver switches for every taste: the SPIDER family.

Applications

The SPIDER family can be used in Industrial ETHERNET wherever terminals need to be implemented using a star or linear structure – or where a low-cost port expansion is required by managed systems or large networks. Use on process lines, in engineering or in plant manufacture, such as printing machinery. The SPIDER 4TX/1FX features a fiber port for interference-free data transfer even over longer distances or in the toughest electrical conditions, such as directly mounted on powerful motors and other components, or parallel with power cables.

Product features

Extremely light and compact in design, the SPIDER family of switches can be mounted on DIN rails and meets all the requirements for problem-free deployment in industrial environments: IP 30 protection with shock, vibration and temperature resistance, handling-friendly Plug&Play based on autonegotiation, autocrossing and autopolarity, and 24 V operation.
As full-spec industrial switches, the SPIDER models offer impressive performance in tough practical applications, such as on printing machines, thanks to their shock, vibration and temperature resistance.

In engineering and plant manufacture, low-cost port expansion and terminal connection to Industrial ETHERNET is often key.
**Facts and figures SPIDER 8TX**

**Product description**
- **Description**: Entry Level Industrial ETHERNET Rail Switch, store and forward switching mode, ETHERNET (10 Mbit/s) and Fast-ETHERNET (100 Mbit/s)
- **Port type and quantity**: 8 x 10/100Base-TX, TP cable, RJ-45 sockets, auto-crossing, auto-negotiation, auto-polarity
- **Type**: SPIDER 8TX
- **Order No.**: 943 376-001

**More Interfaces**
- **Power supply/signaling contact**: 1 plug-in terminal block, 3-pin/no signal contact

**Network size – length of cable**
- **Twisted pair (TP)**: 0 – 100 m

**Network size – cascadibility**
- **Line-/star topology**: any

**Power requirements**
- **Operating voltage**: 9.6 V DC – 32 V DC
- **Current consumption at 24 V DC**: max. 160 mA

**Service**
- **Diagnostics**: LEDs (power, link status, data, data rate)

**Ambient conditions**
- **Operating temperature**: 0 °C to +60 °C
- **Storage/transport temperature**: –40 °C to +70 °C
- **Relative humidity (non-condensing)**: 10 % to 95 %

**Mechanical construction**
- **Dimensions (W x H x D)**: 40 mm x 114 mm x 79 mm
- **Mounting**: DIN Rail 35 mm
- **Weight**: 177 g
- **Protection class**: IP 30

**Facts and figures SPIDER 4TX/1FX**

**Product description**
- **Description**: Entry Level Industrial ETHERNET Rail Switch, store and forward switching mode, ETHERNET (10 Mbit/s) and Fast-ETHERNET (100 Mbit/s)
- **Port type and quantity**: 4 x 10/100Base-TX, TP cable, RJ45 sockets, auto-crossing, auto-negotiation, auto-polarity
- **1 x 100BASE-FX, MM cables, SC sockets**
- **Type**: SPIDER 4TX/1FX
- **Order No.**: 943 221-001

**More Interfaces**
- **Power supply/signaling contact**: 1 plug-in terminal block, 3-pin/no signal contact

**Network size – length of cable**
- **Twisted pair (TP)**: 0 – 100 m
- **Multimode fiber (MM) 50/125 µm**: 0 – 5000 m, 8 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 800 MHz x km
- **Multimode fiber (MM) 62.5/125 µm**: 0 – 4000 m, 11 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km

**Network size – cascadibility**
- **Line-/star topology**: any

**Power requirements**
- **Operating voltage**: 9.6 V DC – 32 V DC
- **Current consumption at 24 V DC**: max. 150 mA

**Service**
- **Diagnostics**: LEDs (power, link status, data, data rate)

**Ambient conditions**
- **Operating temperature**: 0 °C to +60 °C
- **Storage/transport temperature**: –40 °C to +70 °C
- **Relative humidity (non-condensing)**: 10 % to 95 %

**Mechanical construction**
- **Dimensions (W x H x D)**: 25 mm x 114 mm x 79 mm
- **Mounting**: DIN Rail 35 mm
- **Weight**: 120 g
- **Protection class**: IP 30
Save money on your network – but not the quality: the new SPIDER family.

Requirements and Solutions

The SPIDER switches deliver all the basics for rugged deployment in the entry-level segment. Industrial ETHERNET sometimes demands simple solutions – such as quick connections to terminal devices. Redundancy or manageable rail switches are just too costly in these situations. So Hirschmann has now expanded the SPIDER 5TX into a complete family. Presenting the new low-cost SPIDER 8TX and SPIDER 4TX/1FX – Industrial ETHERNET connection for 10 Mbit/s and 100 Mbit/s. The 8TX now offers more flexibility with 8 ports, and the 4TX/1FX provides fiber-optic connections based on its fiber port – ideal for use in environments subject to electromagnetic interference.

Hirschmann’s industrial applications give high levels of flexibility and the new SPIDER family ensures we can offer full-spec industrial switches at office port prices – underpinned by renowned Hirschmann quality.
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