



HIRSCHMANN

A BELDEN BRAND

SPIDER Series Unmanaged DIN Rail Mount Ethernet Switches



Entry-level Industrial Unmanaged Switches

The SPIDER family of switches provides users with an economical, yet highly reliable hardened Ethernet switch. Models are available with Gigabit and PoE ports.

All copper/RJ45 ports are auto-negotiating and auto-crossing -- the SPIDERS will work with either patch or cross-over cables. The 100 Mbps fiber ports are available in multimode (MM) and singlemode (SM) with either SC or ST sockets (Gigabit fiber is via SFPs - see page 65). All SPIDER switches are extremely compact and have LED indicators that provide information on power status, link status, and data rate.



Technical Information

| Product Description | | | | | | |
|--|---|-------------------------|-------------------------|---|------------------------|-----------------------|
| Type | SPIDER Series xTX-x | SPIDER Series 1TX/1FX-x | SPIDER Series 4TX/1FX-x | SPIDER Series 8TX-x | SPIDER Series 5TX-Giga | SPIDER Series 8TX-PoE |
| Switching/Routing | Unmanaged | | | | | |
| Available Ports | 3, 5 | 2 | 5 | 8 – 10 | 5, 7 | 8 |
| Construction | | | | | | |
| Mounting | DIN Rail | | | | | |
| Protection Class | IP30 | | | | | |
| Dimensions (WxHxD) | 25 x 114 (126 for ST fiber models) x 79 mm | | | 35 x 154 (168 for ST fiber models) x 121 mm | | |
| Weight | 113 g | 105 g | 120 g | less than 270 g | | 560 g |
| Ambient Conditions | | | | | | |
| Operating Temperature | 0 °C to +60 °C, -40 °C to +70 °C for EEC models | | | | | -10°C to +60°C |
| Storage/Transport Temperature | -40°C to +70°C, -40°C to +85°C for EEC models | | | | | -20°C to +70°C |
| Relative Humidity (non-condensing) | 0% to 95% | | | | | |
| Conformal Coating | n/a | | | | | |
| Interfaces | | | | | | |
| V.24 Interface | n/a | | | | | |
| USB Interface | n/a | | | | | |
| Power Requirements | | | | | | |
| Operating Voltage | 9.6 to 32 V DC | | | | | |
| PoE (802.3af) Ports Supported | Yes (Powered Device) | | Yes (Powered Device) | | n/a | Yes |
| PoE Plus (802.3at) Ports Supported | n/a | | | | | |
| Regulatory Approvals | | | | | | |
| Safety of Industrial Control Equipment | cUL508 | | | | | |
| Hazardous Locations | n/a | | | | | |
| Germanischer Lloyd | n/a | | | | | |
| Transportation | n/a | | | | | |
| Railway (track) | n/a | | | | | |
| Substation | n/a | | | | | |
| Reliability | | | | | | |
| MTBF Range | 239 to 360 years | 138 to 265 years | 129 to 194 years | 88 to 185 years | 114.3 years | – |
| Warranty | 5 years standard | | | | | |

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com



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All Copper/RJ45

| Part No. | Order No. | Ports |
|-------------------|-------------|--|
| SPIDER 3TX-TAP | 943 899-001 | 3 x RJ45 |
| SPIDER 5TX | 943 824-002 | 5 x RJ45 |
| SPIDER 5TX EEC | 943 824-102 | 5 x RJ45 |
| SPIDER II 8TX | 943 957-001 | 8 x RJ45 |
| SPIDER II 8TX EEC | 943 958-001 | 8 x RJ45 |
| SPIDER II 8TX PoE | 942 008-001 | 8 x RJ45 and 4 X PoE, with metal housing and 24 V DC input |

All Copper/RJ45 and FIBER

| Part No. | Order No. | Ports |
|--------------------------|-------------|-------------------------|
| SPIDER 1TX/1FX | 943 890-001 | 1 x RJ45 and 1 x MM, SC |
| SPIDER 1TX/1FX EEC | 943 927-101 | 1 x RJ45 and 1 x MM, SC |
| SPIDER 1TX/1FX-SM | 943 891-001 | 1 x RJ45 and 1 x MM, SC |
| SPIDER 1TX/1FX SM EEC | 943 928-001 | 1 x RJ45 and 1 x SM, SC |
| SPIDER 4TX/1FX | 943 221-001 | 4 x RJ45 and 1 x MM, SC |
| SPIDER 4TX/1FX EEC | 943 221-101 | 4 x RJ45 and 1 x MM, SC |
| SPIDER 4TX/1FX-ST EEC | 943 914-001 | 4 x RJ45 and 1 x MM, ST |
| SPIDER 4TX/1FX SM EEC | 943 880-001 | 4 x RJ45 and 1 x SM, SC |
| SPIDER II 8TX/1FX EEC | 943 958-111 | 8 x RJ45 and 1 x MM, SC |
| SPIDER II 8TX/1FX-ST EEC | 943 958-121 | 8 x RJ45 and 1 x MM, ST |
| SPIDER II 8TX/2FX EEC | 943 958-211 | 8 x RJ45 and 2 x MM, SC |
| SPIDER II 8TX/2FX-ST EEC | 943 958-221 | 8 x RJ45 and 2 x MM, ST |
| SPIDER II 8TX/1FX-SM EEC | 943 958-131 | 8 x RJ45 and 1 x SM, SC |
| SPIDER II 8TX/2FX-SM EEC | 943 958-231 | 8 x RJ45 and 2 x SM, SC |

FAST Ethernet Switches via PoE

| Part No. | Order No. | Ports |
|--------------------------|-------------|--|
| SPIDER 5TX PD EEC | 942 051-001 | 5 x 10/100BaseTX Ports, one of which is 1 x PoE PD integrated port |
| SPIDER 1TX/1FX-MM PD EEC | 942 051-002 | 1 x 10/100BaseTX PoE PD Port and 1 x 100BaseFX multimode SC |
| SPIDER 1TX/1FX-SM PD EEC | 942 051-003 | 1 x 10/100BaseTX PoE PD Port and 1 x 100BaseFX singlemode SC |

FULL GIGABIT

| Part No. | Order No. | Ports |
|--------------------------------|-------------|--|
| SPIDER II Giga 5T EEC | 943 962-002 | 5 x RJ45 (10/100/1000) |
| SPIDER II Giga 5T/2S EEC | 943 963-002 | 5 x RJ45 (10/100/1000) and 2 x SFP Socket (1000) |
| SPIDER II Giga 5T EEC Pro | 943 962-102 | 5 x RJ45 (10/100/1000), QoS support IEEE 802.1D |
| SPIDER II Giga 5T/2S EEC Pro | 943 963-102 | 5 x RJ45 (10/100/1000) and 2 x SFP Socket (1000), QoS support IEEE802.1D |
| SPIDER II Giga 5T EEC Jumbo | 943 962-202 | 5 x RJ45 (10/100/1000), Jumbo Frame support with up to 9014 Byte user data |
| SPIDER II Giga 5T/2S EEC Jumbo | 943 963-202 | 5 x RJ45 (10/100/1000) and 2 x SFP Socket (1000), Jumbo Frame support with up to 9014 Byte user data |

NOTE: EEC stands for extended environmental conditions (-40°C to +70°C).

