

**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 Fast Ethernet, Gigabit Ethernet 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 fiber ports are available in multimode (MM), singlemode (SM) with either SC or ST sockets or via SFP transceiver (see page 112). All SPIDER switches are extremely compact and have LED indicators that provide information on power status, link status, and data rate. Additional to that all "PRO" Variants fulfill the requirements of PROFINET Conformance Class A.

**Technical Information**

Product Description								
Type	SPIDER 1TX/1FX-x	SPIDER xTX-x	SPIDER II 8TX/x	SPIDER II Giga 5TX/x	SPIDER II 16TX/x	SPIDER Giga 2TX PoE EEC	SPIDER II 8TX PoE	SPIDER xTX-x PD EEC
Switching/Routing	Unmanaged							
Available Ports	2	3, 5, 8	8, 9, 10	5, 7	16, 18	2	8	2, 5
Construction								
Mounting	DIN Rail							
Protection Class	IP30							
Dimensions (WxHxD)	25 x 114 x 79 mm 25 x 126 x 79 mm for ST fiber models		35 x 154 x 121 mm 35 x 168 x 121 mm for ST fiber models			30 x 140 x 95 mm	35 x 154 x 121 mm	25 x 114 x 79 mm
Weight	177 g		270 g		730 g	420 g	560 g	198 g
Ambient Conditions								
Operating Temperature	0 °C to +60 °C, -40 °C to +70 °C for EEC models					-40 °C to +70 °C	-10 °C to +60 °C	-40 °C to +70 °C
Storage/Transport Temperature	-40 °C to +70 °C, -40 °C to +85 °C for EEC models					-40 °C to +85 °C	-20 °C to +70 °C	-40 °C to +85 °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				18 to 32 V DC	21 to 53 V DC	18 to 32 V DC	36 to 57 V DC
PoE (802.3af) Ports Supported	n/a						4	n/a
PoE Plus (802.3at) Ports	n/a					1	n/a	
Powered Device (PD)	no							yes
Regulatory Approvals								
Safety of Industrial Control Equipment	cUL508				cUL508, cUL60950-1	cUL508		
Hazardous Locations	n/a				ISA 12.12.01 C1D2, ATEX Zone 2	n/a		
Reliability								
MTBF Range	138 to 265 years	129 to 360 years	88 to 185 years	114 years	37 years	162 years	55 years	46 to 55 years
Warranty	5 years standard							

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



All Copper/RJ45		
Part No.	Order No.	Ports
SPIDER 3TX-TAP	943 899-001	3 x 10/100 Mbit/s RJ45
SPIDER 5TX	943 824-002	5 x 10/100 Mbit/s RJ45
SPIDER 5TX EEC	943 824-102	5 x 10/100 Mbit/s RJ45
SPIDER 8TX	943 376-001	8 x 10/100 Mbit/s RJ45
SPIDER 8TX EEC	943 376-201	8 x 10/100 Mbit/s RJ45
SPIDER II 8TX	943 957-001	8 x 10/100 Mbit/s RJ45
SPIDER II 8TX EEC	943 958-001	8 x 10/100 Mbit/s RJ45
SPIDER II 16TX EEC	942 120-001	16 x 10/100 Mbit/s RJ45
SPIDER II Giga 5T EEC	943 962-002	5 x 10/100/1000 Mbit/s RJ45
SPIDER II Giga 5T EEC Pro	943 962-102	5 x 10/100/1000 Mbit/s RJ45, QoS according to IEEE 802.1D
SPIDER II Giga 5T EEC Jumbo	943 962-202	5 x 10/100/1000 Mbit/s RJ45, Jumbo Frames with up to 9014 Bytes user data

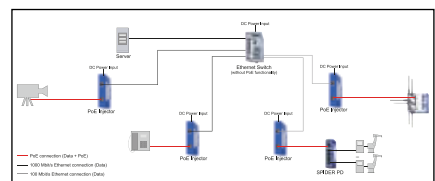


Copper/RJ45 and Fiber		
Part No.	Order No.	Ports
SPIDER 1TX/1FX	943 890-001	1 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s MM SC
SPIDER 1TX/1FX EEC	943 927-101	1 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s MM SC
SPIDER 1TX/1FX-SM	943 891-001	1 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s SM SC
SPIDER 1TX/1FX SM EEC	943 928-001	1 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s SM SC
SPIDER 4TX/1FX	943 221-001	4 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s MM SC
SPIDER 4TX/1FX EEC	943 221-101	4 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s MM SC
SPIDER 4TX/1FX-ST EEC	943 914-001	4 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s MM ST
SPIDER 4TX/1FX SM EEC	943 880-001	4 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s SM SC
SPIDER II 8TX/1FX EEC	943 958-111	8 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s MM SC
SPIDER II 8TX/1FX-ST EEC	943 958-121	8 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s MM ST
SPIDER II 8TX/2FX EEC	943 958-211	8 x 10/100 Mbit/s RJ45, 2 x 100 Mbit/s MM SC
SPIDER II 8TX/2FX-ST EEC	943 958-221	8 x 10/100 Mbit/s RJ45, 2 x 100 Mbit/s MM ST
SPIDER II 8TX/1FX-SM EEC	943 958-131	8 x 10/100 Mbit/s RJ45, 1 x 100 Mbit/s SM SC
SPIDER II 8TX/2FX-SM EEC	943 958-231	8 x 10/100 Mbit/s RJ45, 2 x 100 Mbit/s SM SC
SPIDER II 16TX/2DS-S EEC	942 121-001	16 x 10/100 Mbit/s RJ45, 2 x 100/1000 Mbit/s SFP
SPIDER II Giga 5T/2S EEC	943 963-002	5 x 10/100/1000 Mbit/s RJ45, 2 x 1000 Mbit/s SFP
SPIDER II Giga 5T/2S EEC Pro	943 963-102	5 x 10/100/1000 Mbit/s RJ45, 2 x 1000 Mbit/s SFP, QoS according to IEEE 802.1D
SPIDER II Giga 5T/2S EEC Jumbo	943 963-202	5 x 10/100/1000 Mbit/s RJ45, 2 x 1000 Mbit/s SFP, Jumbo Frames with up to 9014 Bytes user data

Ethernet Switches powered via PoE		
Part No.	Order No.	Ports
SPIDER 5TX PD EEC	942 051-001	5 x 10/100 Mbit/s RJ45, 1 x PoE PD according to IEEE 802.3af
SPIDER 1TX/1FX-MM PD EEC	942 051-002	1x 10/100 Mbit/s RJ45, 1 x PoE PD according to IEEE 802.3af, 1 x 100 Mbit/s MM SC
SPIDER 1TX/1FX-SM PD EEC	942 051-003 1	1x 10/100 Mbit/s RJ45, 1 x PoE PD according to IEEE 802.3af, 1 x 100 Mbit/s SM SC

PoE Ethernet Switch/Injector		
Part No.	Order No.	Ports
SPIDER II 8TX PoE	942 008-001	8 x 10/100 Mbit/s RJ45, 4 x PoE according to IEEE802.3af
SPIDER GIGA 2TX PoE EEC	942 059-001	2 x 10/100/1000 Mbit/s RJ45, 1 x PoE+ according to IEEE802.3at

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



Example of PoE Injector Installation Illustrating the use of PoE.