



SFP and XFP Transceivers

Hirschmann's high quality Small Form-factor Pluggable (SFP) and 10 Gigabit Small Form Factor Pluggable (XFP) transceivers are tested and approved and are also working under the same environmental conditions like our switches. Transceivers are a crucial part of the network, which is why Hirschmann switches only support Hirschmann SFP and XFP transceivers.

Fast Ethernet SFP Transceivers



Product Name	Order Number	Data Rate	Connector	Distance*, Fiber	Operating Temperature
M-Fast SFP-TX/RJ45	942 098-001	100 Mbit/s	RJ45	100 m	0 to +60 °C
M-Fast SFP-TX/RJ45 EEC	942 098-002	100 Mbit/s	RJ45	100 m	-40 to +85 °C
M-FAST SFP-MM/LC	943 865-001	100 Mbit/s	LC	5 km, 50/125 µm MM 4 km, 62.5/12.5 µm MM	0 to +60 °C
M-FAST SFP-MM/LC EEC	943 945-001	100 Mbit/s	LC	5 km, 50/125 µm MM 4 km, 62.5/12.5 µm MM	-40 to +85 °C
M-FAST SFP-SM/LC	943 866-001	100 Mbit/s	LC	25 km, 9/125 µm SM	0 to +60 °C
M-FAST SFP-SM/LC EEC	943 946-001	100 Mbit/s	LC	25 km, 9/125 µm SM	-40 to +85 °C
M-FAST SFP-SM+/LC	943 867-001	100 Mbit/s	LC	25 to 65 km, 9/125 µm SM	0 to +60 °C
M-FAST SFP-SM+/LC EEC	943 947-001	100 Mbit/s	LC	25 to 65 km, 9/125 µm SM	-40 to +85 °C
M-FAST SFP-LH/LC	943 868-001	100 Mbit/s	LC	55 to 140 km, 9/125 µm SM	0 to +60 °C
M-FAST SFP-LH/LC EEC	943 948-001	100 Mbit/s	LC	55 to 140 km, 9/125 µm SM	-40 to +85 °C
SFP-FAST-MM/LC	942 194-001	100 Mbit/s	LC	5 km, 50/125 µm MM 4 km, 62.5/12.5 µm MM	0 to +60 °C
SFP-FAST-MM/LC EEC	942 194-002	100 Mbit/s	LC	5 km, 50/125 µm MM 4 km, 62.5/12.5 µm MM	-40 to +85 °C
SFP-FAST-SM/LC	942 195-001	100 Mbit/s	LC	25 km, 9/125 µm SM	0 to +60 °C
SFP-FAST-SM/LC EEC	942 195-002	100 Mbit/s	LC	25 km, 9/125 µm SM	-40 to 85 °C

Fast Ethernet Bi-Directional SFP Transceivers



Product Name	Order Number	Data Rate	Connector	Distance*, Fiber	Operating Temperature
SFP-FAST-BA MM/LC EEC	942 204-001	100 Mbit/s	LC	2 km, 50/125 µm MM 2 km, 62.5/12.5 µm MM	-40 to +85 °C
SFP-FAST-BB MM/LC EEC	942 204-002	100 Mbit/s	LC	2 km, 50/125 µm MM 2 km, 62.5/12.5 µm MM	-40 to +85 °C
SFP-FAST-BA SM/LC EEC	942 205-001	100 Mbit/s	LC	20 km, 9/125 µm SM	-40 to +85 °C
SFP-FAST-BB SM/LC EEC	942 205-002	100 Mbit/s	LC	20 km, 9/125 µm SM	-40 to +85 °C
SFP-FAST-BA SM+/LC EEC	942 206-001	100 Mbit/s	LC	60 km, 9/125 µm SM	-40 to +85 °C
SFP-FAST-BB SM+/LC EEC	942 206-002	100 Mbit/s	LC	60 km, 9/125 µm SM	-40 to +85 °C

Gigabit Ethernet SFP Transceivers



Product Name	Order Number	Data Rate	Connector	Distance*, Fiber	Operating Temperature
M-SFP-SX/LC	943 014-001	1000 Mbit/s	LC	550 m, 50/125 µm MM 275 m, 62.5/125 µm MM	0 to +60 °C
M-SFP-SX/LC EEC	943 896-001	1000 Mbit/s	LC	550 m, 50/125 µm MM 275 m, 62.5/125 µm MM	-40 to +85 °C
M-SFP-LX/LC	943 015-001	1000 Mbit/s	LC	550 m, 50/125 µm MM 550 m, 62.5/125 µm MM 20 km, 9/125 µm SM	0 to +60 °C
M-SFP-LX/LC EEC	943 897-001	1000 Mbit/s	LC	550 m, 50/125 µm MM 550 m, 62.5/125 µm MM 20 km, 9/125 µm SM	-40 to +85 °C
M-SFP-MX/LC EEC	942 108-001	1000 Mbit/s	LC	1.5 km, 50/125 µm MM 500 m, 62.5/125 µm MM	-40 to +85 °C
M-SFP-LX+/LC	942 023-001	1000 Mbit/s	LC	5 to 42 km, 9/125 µm SM	0 to +60 °C
M-SFP-LX+/LC EEC	942 024-001	1000 Mbit/s	LC	5 to 42 km, 9/125 µm SM	-40 to +85 °C
M-SFP-LH/LC	943 042-001	1000 Mbit/s	LC	16 to 80 km, 9/125 µm SM	0 to +60 °C
M-SFP-LH/LC-EEC	943 898-001	1000 Mbit/s	LC	16 to 80 km, 9/125 µm SM	-40 to +85 °C
M-SFP-LH+/LC	943 049-001	1000 Mbit/s	LC	44 to 120 km, 9/125 µm SM	0 to +60 °C
M-SFP-LH+/LC EEC	942 119-001	1000 Mbit/s	LC	44 to 120 km, 9/125 µm SM	-40 to +85 °C
M-SFP-TX/RJ45	943 977-001	1000 Mbit/s	RJ45	100 m	0 to +60 °C
M-SFP-TX/RJ45 EEC	942 161-001	1000 Mbit/s	RJ45	100 m	-40 to +85 °C

Gigabit Ethernet SFP Transceivers



Product Name	Order Number	Data Rate	Connector	Distance*, Fiber	Operating Temperature
SFP-GIG-LX/LC	942 196-001	1000 Mbit/s	LC	550 m, 50/125 µm MM 550 m, 62.5/125 µm MM 20 km, 9/125 µm SM	0 to +60 °C
SFP-GIG-LX/LC EEC	942 196-002	1000 Mbit/s	LC	550 m, 50/125 µm MM 550 m, 62.5/125 µm MM 20 km, 9/125 µm SM	-40 to +85 °C

Gigabit Ethernet Bi-Directional SFP Transceivers



Product Name	Order Number	Data Rate	Connector	Distance*, Fiber	Operating Temperature
M-SFP-BIDI-Bundle LX/LC EEC	943 974-101	1000 Mbit/s	LC	20 km, 9/125 µm SM	-40 to +85 °C
M-SFP-BIDI-Bundle LH/LC EEC	943 975-101	1000 Mbit/s	LC	23 to 80 km, 9/125 µm SM	-40 to +85 °C
M-SFP-BIDI Type A LH/LC EEC	943 975-001	1000 Mbit/s	LC	23 to 80 km, 9/125 µm SM	-40 to +85 °C
M-SFP-BIDI Type A LX/LC EEC	943 974-001	1000 Mbit/s	LC	20 km, 9/125 µm SM	-40 to +85 °C
M-SFP-BIDI Type B LH/LC EEC	943 975-002	1000 Mbit/s	LC	23 to 80 km, 9/125 µm SM	-40 to +85 °C
M-SFP-BIDI Type B LX/LC EEC	943 974-002	1000 Mbit/s	LC	20 km, 9/125 µm SM	-40 to +85 °C
SFP-GIG-BA LX/LC EEC	942 207-001	1000 Mbit/s	LC	20 km, 9/125 µm SM	-40 to +85 °C
SFP-GIG-BB LX/LC EEC	942 207-002	1000 Mbit/s	LC	20 km, 9/125 µm SM	-40 to +85 °C
SFP-GIG-BA LX+/LC EEC	942 208-001	1000 Mbit/s	LC	12 to 40 km, 9/125 µm SM	-40 to +85 °C
SFP-GIG-BB LX+/LC EEC	942 208-002	1000 Mbit/s	LC	12 to 40 km, 9/125 µm SM	-40 to +85 °C
SFP-GIG-BA LH/LC EEC	942 209-001	1000 Mbit/s	LC	19 to 80 km, 9/125 µm SM	-40 to +85 °C
SFP-GIG-BB LH/LC EEC	942 209-002	1000 Mbit/s	LC	19 to 80 km, 9/125 µm SM	-40 to +85 °C

2.5 Gigabit Ethernet SFP Transceivers



Product Name	Order Number	Data Rate	Connector	Distance*, Fiber	Operating Temperature
M-SFP-2.5-MM/LC EEC	942 162-001	2500 Mbit/s	LC	550 m, 50/125 µm MM 170 m, 62.5/125 µm MM	-40 to +85 °C
M-SFP-2.5-SM-/LC EEC	942 163-001	2500 Mbit/s	LC	5 km, 9/125 µm SM	-40 to +85 °C
M-SFP-2.5-SM/LC EEC	942 164-001	2500 Mbit/s	LC	20 km, 9/125 µm SM	-40 to +85 °C
M-SFP-2.5-SM+/LC EEC	942 165-001	2500 Mbit/s	LC	21 to 45 km, 9/125 µm SM	-40 to +85 °C
M-SFP-2.5-LH/LC	942 220-001	2500 Mbit/s	LC	80 km, 9/125 µm SM	0 to +60 °C

10 Gigabit Ethernet XFP and SFP+ Transceivers



Product Name	Order Number	Data Rate	Connector	Distance*, Fiber	Operating Temperature
M-XFP-SR/LC	943 917-001	10000 Mbit/s	LC	300 m, 50/125 µm MM 33 m, 62.5/125 µm MM	0 to +60 °C
M-XFP SR/LC EEC	942 054-001	10000 Mbit/s	LC	300 m, 50/125 µm MM 33 m, 62.5/125 µm MM	-40 to +85 °C
M-XFP-LR/LC	943 919-001	10000 Mbit/s	LC	10 km, 9/125 µm SM	0 to +60 °C
M-XFP LR/LC EEC	942 055-001	10000 Mbit/s	LC	10 km, 9/125 µm SM	-40 to +85 °C
M-XFP-ER/LC	943 920-001	10000 Mbit/s	LC	10 to 40 km, 9/125 µm SM	0 to +60 °C
M-XFP ER/LC EEC	942 056-001	10000 Mbit/s	LC	10 to 40 km, 9/125 µm SM	-40 to +85 °C
M-XFP-ZR/LC	943 921-001	10000 Mbit/s	LC	40 to 80 km, 9/125 µm SM	0 to +60 °C
M-SFP-10-SR/LC EEC	942 210-001	10000 Mbit/s	LC	300 m, 50/125 µm MM 33 m, 62.5/125 µm MM	-40 to +85 °C
M-SFP-10-LR/LC EEC	942 211-001	10000 Mbit/s	LC	10 km, 9/125 µm SM	-40 to +85 °C
M-SFP-10-ER/LC EEC	942 212-001	10000 Mbit/s	LC	10 to 40 km, 9/125 µm SM	-40 to +85 °C
M-SFP-10-ZR/LC	942 213-001	10000 Mbit/s	LC	40 to 80 km, 9/125 µm SM	-5 to +85 °C

*Achievable distance depends on selected fiber optic.