

## Product Description

The SFP module range provides true flexibility to the KBC range of SFP-based industrial Ethernet switches. Modules are available for twisted pair and for multimode and singlemode optical fiber. Optical modules include Digital Diagnostics Monitoring (DDM).



## Specifications

### Standards

IEEE Standard	100BASE-T, 1000BASE-T 1000BASE-SX, 1000BASE-LX, 1000BASE-XD, 1000BASE-ZX, 100BASE-FX, 10GBase-FX
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DDM	SFP-8472 MSA
10G Optical Modules	SFP+ Electrical MSA SFF-8431

### Maximum Data Rate

100M Optical Modules	155Mbps
1G Optical Modules	1.25Gbps
10G Optical Modules	11.3Gbps

### Power

Power Consumption	<1 Watt
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### Environmental

Operating Temperature	-40°C ~ +74°C / -40°C ~ +165°F
Storage Temperature	-40°C ~ +85°C / -40°C ~ +185°F
Operating Humidity	0 to 95% non-condensing

### Connectors

Ethernet	RJ45
Optical	LC, SC <sup>(1)</sup>

## Ordering Information

Part Code	Data Rate (Mbps)	Transmission Medium		TX λ (nm)	RX λ (nm)	Connector	Approximate Transmission Distance <sup>(2) (3)</sup>
		Type	No.				
SFPV-MT <sup>(4) (5)</sup>	100	Copper	NA	NA	NA	RJ45	0-100m
SFPV-GT <sup>(4) (5)</sup>	1000	Copper	NA	NA	NA	RJ45	0-100m
SFP-NM2-D	10G	Multimode	2	850	850	LC	0-300m
SFP-MM2-D	100	Multimode	2	1310	1310	LC	0-2km
SFPV-MM1A-D	100	Multimode	1	1310	1550	LC	0-2km
SFPV-MM1B-D	100	Multimode	1	1550	1310	LC	0-2km
SFP-MS2-AD	100	Singlemode	2	1310	1310	LC	0-20km
SFP-MS2-BD	100	Singlemode	2	1310	1310	LC	0-40km
SFP-MS1A-AD	100	Singlemode	1	1310	1550	LC	0-20km
SFP-MS1B-AD	100	Singlemode	1	1550	1310	LC	0-20km
SFP-MS1A-AD-C	100	Singlemode	1	1310	1550	SC	0-20km
SFP-MS1B-AD-C	100	Singlemode	1	1550	1310	SC	0-20km
SFP-MS1A-BD	100	Singlemode	1	1310	1550	LC	0-40km
SFP-MS1B-BD	100	Singlemode	1	1550	1310	LC	0-40km
SFP-MS1A-BD-C	100	Singlemode	1	1310	1550	SC	0-40km
SFP-MS1B-BD-C	100	Singlemode	1	1550	1310	SC	0-40km
SFP-MS1A-CD	100	Singlemode	1	1310	1550	LC	0-80km
SFP-MS1B-CD	100	Singlemode	1	1550	1310	LC	0-80km
SFP-MS1A-CD-C	100	Singlemode	1	1310	1550	SC	0-80km
SFP-MS1B-CD-C	100	Singlemode	1	1550	1310	SC	0-80km
SFP-GM2-D	1000	Multimode	2	850	850	LC	0-500m
SFP-GS2-AD	1000	Singlemode	2	1310	1310	LC	0-20km
SFP-GS2-BD	1000	Singlemode	2	1310	1310	LC	0-40km
SFP-GS1A-AD	1000	Singlemode	1	1310	1550	LC	0-20km
SFP-GS1B-AD	1000	Singlemode	1	1550	1310	LC	0-20km
SFP-GS1A-AD-C	1000	Singlemode	1	1310	1550	SC	0-20km
SFP-GS1B-AD-C	1000	Singlemode	1	1550	1310	SC	0-20km
SFP-GS1A-BD	1000	Singlemode	1	1310	1550	LC	0-40km
SFP-GS1B-BD	1000	Singlemode	1	1550	1310	LC	0-40km

SFP-GS1A-BD-C	1000	Singlemode	1	1310	1550	SC	0-40km
SFP-GS1B-BD-C	1000	Singlemode	1	1550	1310	SC	0-40km
SFP-GS1A-CD	1000	Singlemode	1	1310	1550	LC	0-80km
SFP-GS1B-CD	1000	Singlemode	1	1550	1310	LC	0-80km
SFP-GS1A-CD-C	1000	Singlemode	1	1310	1550	SC	0-80km
SFP-GS1B-CD-C	1000	Singlemode	1	1550	1310	SC	0-80km
SFP-NS2-ND	10000	Singlemode	2	1310	1310	LC	0-10km
SFP-NS2-AD	10000	Singlemode	2	1310	1310	LC	0-20km
SFP-NS1A-ND	10000	Singlemode	1	1270	1330	LC	0-10km
SFP-NS1B-ND	10000	Singlemode	1	1330	1270	LC	0-10km
SFP-NS1A-AD	10000	Singlemode	1	1270	1330	LC	0-20km
SFP-NS1B-AD	10000	Singlemode	1	1330	1270	LC	0-20km

1. LC is default connector. SC is available only for those listed.
2. Transmission distance is limited by optical loss of the fiber and loss introduced by connectors, splices and patch panels. Fiber bandwidth also limits the transmission distance.
3. Please contact KBC for availability of longer distance version.
4. Work with SerDes interface only.
5. No DDM.

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