

SFP transceiver modules - Copper | Technical details

Product		
Module	1 Gbit/s 100m RJ45	2,5 Gbit/s 100m RJ45
Item number	114120003	114120035
Can be used for PROmesh Switch	PROmesh P10+ PROmesh P20 PROmesh P24+ PROmesh P28+R PROmesh B12 PoE PROmesh B28-R PROmesh B28-RL	PROmesh P10+ PROmesh P24+ PROmesh P28+R
Features		
Data rate	10/100/1000 Mbit/s	100/1000/2500 Mbit/s
Cable type	Twisted Pair	Twisted Pair
Range	100 m	100 m
Connection	RJ45	RJ45
External interface	10Base-TX, 100Base-TX, 1000Base-TX	100Base-TX, 1000Base-TX, 2,5GBase-TX
Storage temperature	-40°C – 100°C	-40°C – 85°C
Operating temperature	-40°C – 85°C	0°C – 70°C
Conformity		
CE-EMV	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014
CE-LVD	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010
C-Tick	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009
RoHS	2011-65-EU	2011-65-EU
REACH	SVHC	SVHC

TECHNICAL DATA SHEET

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SFP transceiver modules – Single Mode | Technical details

Product					
Module	100 Mbit/s 10km SM	1 Gbit/ 20km SM	1 Gbit/ 40km SM	2,5 Gbit/s 10km SM	10 Gbit/s 10km SM
Item number	114120007	114120004	114120025	114120021	114120008
Can be used for PROmesh Switch	PROmesh P10+ PROmesh P20 PROmesh P24+ PROmesh P28+R PROmesh B12 PoE	PROmesh P10+ PROmesh P20 PROmesh P24+ PROmesh P28+R PROmesh B12 PoE PROmesh B28-R PROmesh B28-RL	PROmesh P10+ PROmesh P20 PROmesh P24+ PROmesh P28+R PROmesh B12 PoE PROmesh B28-R PROmesh B28-RL	PROmesh P10+ PROmesh P24+ PROmesh P28+R PROmesh B12 PoE	PROmesh P24+ PROmesh P28+R PROmesh B28-R PROmesh B28-RL
Features					
Data rate	100 Mbit/s	1 Gbit/s	1 Gbit/s	2.5 Gbit/s	10 Gbit/s
Cable type	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode
Range	10 km	20 km	40 km	10 km	10 km
Connection	LC	LC	LC	LC	LC
Internal Interface	SerDes	SerDes	SerDes	SerDes	SerDes
External interface	100Base-LX	1000Base-LX	1000Base-LX	2500Base-LX	10GBase-LX
Transmit wavelength	1260 nm up to 1360 nm	1260 nm up to 1360 nm	1310 nm	1270 nm up to 1340 nm	1260 nm up to 1355 nm
Receive wavelength	1260 nm up to 1360 nm	1260 nm up to 1580 nm	1310 nm	1260 nm up to 1610 nm	1260 nm up to 1355 nm
Transmit power	-15 dBm up to -8 dBm	-9 dBm up to -3 dBm	-5 dBm up to 0 dBm	-4 dBm up to 0 dBm	-8,2 dBm up to 0,5 dBm
Receive sensitivity	-28 dBm up to -8 dBm	-23 dBm up to -3 dBm	-23 dBm up to -3 dBm	-20 dBm up to -3 dBm	-14,4 dBm up to 0,5 dBm
Storage temperature	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
Operating temperature	0°C – 70°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
Laser	Class 1	Class 1	Class 1	Class 1	Class 1
Conformity					
CE-EMV	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014
CE-LVD	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010
C-Tick	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009
RoHS	2011-65-EU	2011-65-EU	2011-65-EU	2011-65-EU	2011-65-EU
REACH	SVHC	SVHC	SVHC	SVHC	SVHC

SFP transceiver modules – Multi Mode | Technical details

Product				
Module	100 Mbit/s 2km MM	100 Mbit/s 2km MM	1 Gbit/ 0,55km MM	1 Gbit/ 2km MM
Item number	114120006	114120034	114120005	114120024
Can be used for PROmesh Switch	PROmesh P10+ PROmesh P20 PROmesh P24+ PROmesh P28+R	PROmesh B12 PoE PROmesh B28-R PROmesh B28-RL	PROmesh P10+ PROmesh P20 PROmesh P24+ PROmesh P28+R PROmesh B12 PoE PROmesh B28-R PROmesh B28-RL	PROmesh P10+ PROmesh P20 PROmesh P24+ PROmesh P28+R PROmesh B12 PoE
Features				
Data rate	100 Mbit/s	100 Mbit/s	1 Gbit/s	1 Gbit/s
Cable type	Multi Mode	Multi Mode	Multi Mode	Multi Mode
Range	2 km	2 km	0,55 km	2 km
Connection	LC	LC	LC	LC
Internal Interface	SerDes	SerDes	SerDes	SerDes
External interface	100Base-LX	100Base-LX	1000Base-LX	1000Base-LX
Transmit wavelength	1260 nm up to 1360 nm	1310 nm	830 nm up to 860 nm	1310 nm
Receive wavelength	1260 nm up to 1360 nm	1310 nm	770 nm up to 860 nm	1310 nm
Transmit power	-15 dBm up to -8 dBm	-14 dBm up to -9 dBm	-9 dBm up to -3 dBm	-9 dBm up to -3 dBm
Receive sensitivity	-31 dBm up to -14 dBm	-31 dBm up to -8 dBm	-23 dBm up to -3 dBm	-19 dBm up to -3 dBm
Storage temperature	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
Operating temperature	0°C – 70°C	-40°C – 85°C	-40°C – 85°C	-40°C – 85°C
Laser	Class 1	Class 1	Class 1	Class 1
Conformity				
CE-EMV	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014
CE-LVD	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010
C-Tick	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009
RoHS	2011-65-EU	2011-65-EU	2011-65-EU	2011-65-EU
REACH	SVHC	SVHC	SVHC	SVHC

SFP transceiver modules – Multi Mode | Technical details

Product		
Module	2,5 Gbit/s 0,55km MM	10 Gbit/s 0,3km MM
Item number	114120020	114120009
Can be used for PRomesh Switch	PRomesh P10+ PRomesh P24+ PRomesh P28+R PRomesh B12 PoE	PRomesh P24+ PRomesh P28+R PRomesh B28-R PRomesh B28-RL
Features		
Data rate	2,5 Gbit/s	10 Gbit/s
Cable type	Multi Mode	Multi Mode
Range	0,55 km	0,3 km
Connection	LC	LC
Internal Interface	SerDes	SerDes
External interface	2500Base-LX	10GBase-LX
Transmit wavelength	1270 nm up to 1340 nm	850 nm
Receive wavelength	1260 nm up to 1610 nm	850 nm
Transmit power	-4 dBm up to 0,5 dBm	-5 dBm up to -1 dBm
Receive sensitivity	-18 dBm up to -1 dBm	-11 dBm up to -1 dBm
Storage temperature	-40°C – 85°C	-40°C – 85°C
Operating temperature	-40°C – 85°C	-40°C – 85°C
Laser	Class 1	Class 1
Conformity		
CE-EMV	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014	EN610000-6-1:2007 EN610000-6-3:2007/ A1:2011/AC:2012 EN610000-3-2:2014
CE-LVD	EN60825-1:2007 EN60825-2:2010	EN60825-1:2007 EN60825-2:2010
C-Tick	AS/NZS CISPR 22:2009	AS/NZS CISPR 22:2009
RoHS	2011-65-EU	2011-65-EU
REACH	SVHC	SVHC