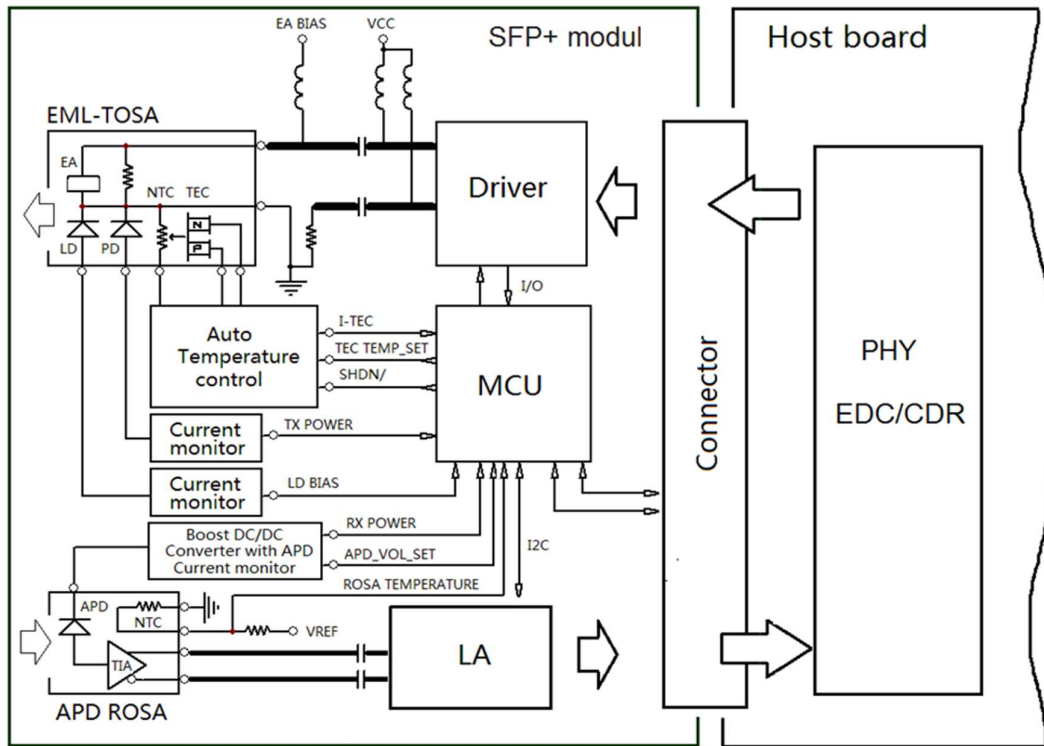


BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATING

Parameters	Symbol	Min.	Max.	Unit
Power Supply Voltage	V _{cc}	-0.5	3.8	V
Storage Temperature	T _{st}	-40	85	°C
Relative Humidity	RH	0	85	%

RECOMMENDED OPERATING ENVIRONMENT

Parameters	Symbol	Min.	Typical	Max.	Unit
Supply Voltage	V _{cc}	3.13	3.3	3.47	V
Supply current	I _{cc}	-	420	900	mA
Operating Case temperature	T _{ca}	-5	-	70	°C
Module Power Dissipation	P _m	-	1.5	3	W

TRANSMITTER SPECIFICATIONS – OPTICAL

Parameters	Symbol	Min.	Typical	Max.	Unit
Center Wavelength	λ_c	1530		1565	nm
Spectral Width (-20 dB)	$\Delta\lambda_{20}$	-	-	0.3	nm
Average Optical Power [2]	Po	0	-	+3	dBm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Optical Transmit Power (disabled)	PTX_DISABLE	-	-	-30	dBm
Extinction Ratio	ER	8.2	-	-	dB
Relative Intensity Noise	RIN	-	-	-128	dB/Hz

RECEIVER SPECIFICATIONS – OPTICAL

Parameters	Symbol	Min.	Typical	Max.	Unit
Input Operating Wavelength	λ	1260	-	1620	nm
Receiver sensitivity(Average) [1] @9.95G~10.3125G	Rsen1	-	-	-24	dBm
Receiver sensitivity(Average) [1] @10.5G~11.095G	Rsen2	-	-	-23	dBm
Maximum Input Power	RX-overload	-	-	-7	dBm
Loss of Signal Asserted	Lsa	-34	-	-	dBm
LOS De-Asserted	Lda	-	-	-24	dBm
LOS Hysteresis	Lh	0.5	-	-	dB

Notes

[1] Measured with conformance test signal for BER = 10⁻¹². The stressed sensitivity values in the table are for system level BER measurements which include the effects of CDR circuits. It is recommended that at least 0.4 dB additional margin be allocated if component level measurements are made without the effects of CDR circuits.

TRANSMITTER SPECIFICATIONS – ELECTRICAL

Parameters	Symbol	Min.	Typical	Max.	Unit
Data Rate	Mra	-	10.3125	11.095	Gbps
Input differential impedance	Rim	-	100	-	Ω
Differential data Input	VtxDIFF	120	-	850	mV
Transmit Disable Voltage	VD	2.0	-	Vcc3+0.3	V
Transmit Enable Voltage	Ven	0	-	+0.8	V
Transmit Disable Assert Time	Vn	-	-	100	us

RECEIVER SPECIFICATIONS – ELECTRICAL

Parameters	Symbol	Min.	Typical	Max.	Unit
Data Rate	Mra	-	10.3125	11.095	Gbps
Differential Output Swing	Vout P-P	350	-	850	mV
Rise/Fall Time	Tr/Tf	24	-	-	ps
Loss of Signal –Asserted	VOH	2	-	Vcc3+0.3-	V
Loss of Signal –Negated	VOL	0	-	+0.4	V

ORDERING INFORMATION¹

Part number	Product Description
XTS55A-80LY	10 Gbps, 1550 nm SFP+ 80 km, -5 °C ~ +70 °C

Note

1. For accurate order specification please contact XenOpt reseller before placing an order.

COMPANY INFORMATION

XENYA d.o.o.
Celovška cesta 172
1000 Ljubljana, SI

CONTACT INFORMATION

info@xenia.si
+386 (0)1 514 06 10
www.xenopt.com

PARTNER INFORMATION

Important notice

Performance figures, data and any illustrative material provided in this data sheet are contains typical values and must be specifically confirmed in writing by XenOpt before they become applicable to any particular order or contract. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information. Specifications may change without notice. The publication of information in this data sheet does not imply freedom from of patent or other protective rights of XenOpt or others. Further details are available from any XenOpt sales representative.

XenOpt™ is a trademark owned by Xenya d.o.o.