HSGQ GPON SFP

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Variants

GPON C++ 7db GPON C++++ 10db GPON C+++ 8db GPON C+ 5db GPON C+++ 9db

Details

HSGQ GPON OLT SFP Module

GPON OLT SFP modules are designed for GPON access networks and support 1.25Gbps upstream and downstream transmission. These modules use 1490nm transmit and 1310nm receive wavelengths with integrated WDM filtering, making them suitable for OLT, FTTH, ISP, and telecom network applications.

Product Specification

Specificatio	Package	Data Rate	Wavelength	Laser	Tx Power	Interface
GPON OLT B+	SFP	1.25G / 1.25G	Tx1490 / Rx1310	DFB / APD	3~5 dBm	SC
GPON OLT C++	SFP	1.25G / 1.25G	Tx1490 / Rx1310	DFB / APD	5~7 dBm	SC
GPON OLT C+++	SFP	1.25G / 1.25G	Tx1490 / Rx1310	DFB / APD	7~10 dBm	SC
GPON OLT C++++	SFP	1.25G / 1.25G	Tx1490 / Rx1310	DFB / APD	9~10 dBm	SC

Receiver Sensitivity

Module Type	Receiving Sensitivity
GPON OLT B+	? -30 dBm
GPON OLT C++	? -32 dBm
GPON OLT C+++	? -32 dBm
GPON OLT C++++	? -32 dBm

Product Features

Feature
Single 3.3V power supply
Small Form-Factor Pluggable (SFP) package
Digital diagnostic monitoring compatible with SFF-8472
Compliant with ITU-T G.984.2
Integrated WDM filter for 1490nm Tx / 1310nm Rx operation
1490nm DFB continuous-mode transmitter
1310nm burst-mode APD-TIA receiver
Hot-pluggable capability
SC receptacle optical connector
RoHS compliant

Absolute Maximum Rating

Parameter	Symbol	Min.	Max.	Unit

Storage Temperature	Ts	-40	+85	°C
Operating Temperature	Top	0	+70	°C
Supply Voltage	Vcc	-0.5	+3.6	V
Supply Current	Icc	-	400	mA

Recommended Operating Conditions

Parameter	Symbol	Min.	Max.	Unit
Operating Temperature	Top	0	+70	°C
Supply Voltage	Vcc	3.1	3.5	V
Tx Data Rate	-	-	-	Mb/s
Rx Data Rate	-	-	-	Mb/s

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