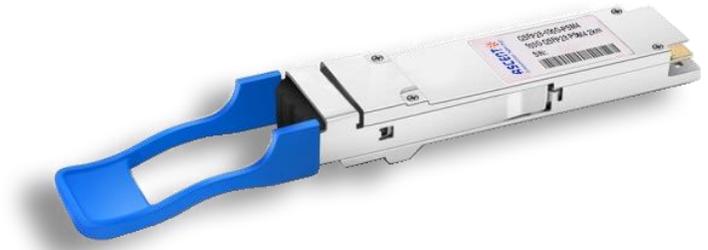


## 100G QSFP28 PSM4 2km Transceiver Transceiver

### QSFP Series



Ascent's QSFP28 100G PSM4 transceiver module is designed to meet the requirements of optical fiber interface for 2 km reach over eight single-mode fibers.

QSFP28-100G-PSM4 can be used in Data Centers, High-speed interconnects within and between switches, routers and transport equipment, Server-Server Clusters, Super-computing interconnections and other network applications.

The optical module offers 4 independent transmit and receive channels, each capable of 25 Gbps operation. 4x1310nm DFB transmit and 1310nm 1x4 PD array receive functionality is integrated with a parallel package using MPO connectors.

Mechanical dimensions, connectors and the footprint of this product is QSFP+ specifications compliant. Digital diagnostics functions are available via the I2C interface, as specified by the QSFP28 MSA. The transceiver is RoHS-6 compliant.

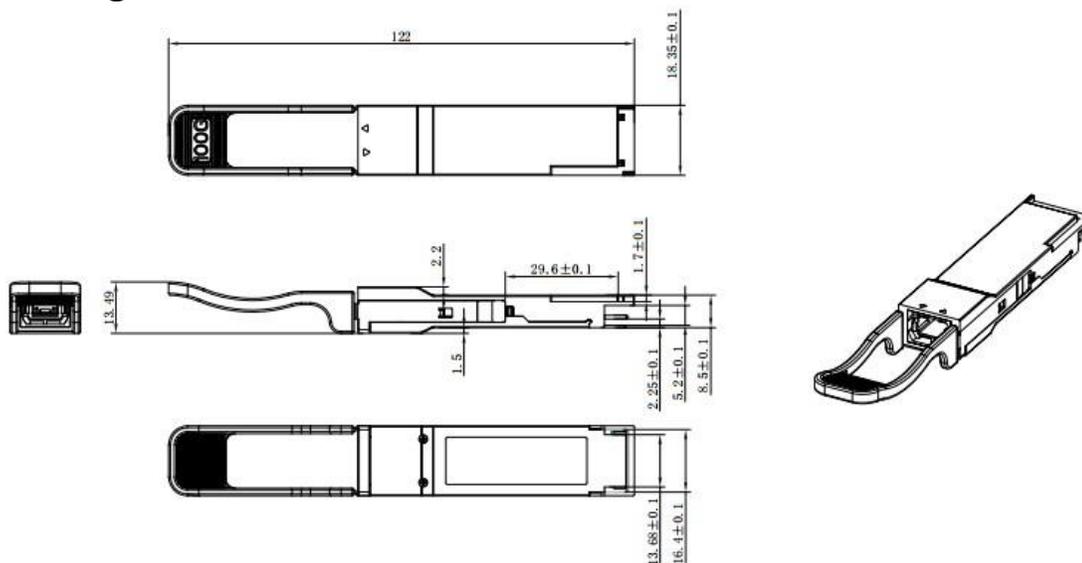
### Key Features

- Support 25.78125Gb/s per channel and 103.1Gb/s aggregate bit rate
- Low power supply consumption(3.5W)
- Wide operating temperature: 0°C~70°C
- Up to 2km reach
- 4 channels 1310 nm DFB
- 4 channels PIN photo detector array

## Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Operating Case Temperature	$T_{case}$	0	-	+70	°C	
DC Supply Voltage	$V_{CC}$	3.135	-	3.465	V	
Module Supply Current	$I_{IN}$	-	-	1000	mA	
Signal Rate each Lane		25.78125 ppm $\pm$ 100ppm			Gbps	
Lane Wavelength	L0	1295	1310	1325	nm	
	L1	1295	1310	1325	nm	
	L2	1295	1310	1325	nm	
	L3	1295	1310	1325	nm	
Average Launch Power each Lane	$P_{avg}$	-9.4		2.0	dBm	
Average Launch Power of OFF Transmitter each Lane				-30	dBm	
Damage Threshold each Lane	THd			3.0	dBm	
Average Receive Power each Lane		-12.66		2.0	dBm	
Sensitivity OMA each Lane [1]	Sen			-12.1	dBm	
Differential Data input Swing	$V_{in}$	180	-	900	mV	
Differential Data Output Swing	$V_{OUT}$	180	-	900	mV	

## Outline Diagram



## Ordering Information

Product Name	Product Description
QSFP28-100G-PSM4	QSFP28 Plug-in, 100GBASE-PSM4, SMF, 4 Channels 1310nm Optical Transceiver, 2km, MTP/MPO, DOM



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