

## Features:

- Recognizable, purple PVC jacket
- 400G to 4x100G with gearbox function
- SFF-8636 compliant (QSFP end)
- Single 3.3V power supply
- Low power consumption:
  - Typ 8.5W power dissipation (OSFP end)
  - Typ 3.5W power dissipation (QSFP end)
- BER < 10<sup>-15</sup> (post FEC)
- Hot pluggable
- RoHS2 compliant
- I<sup>2</sup>C management interface
- Operating case temperature range: 0°C to +70°C

## Standards:

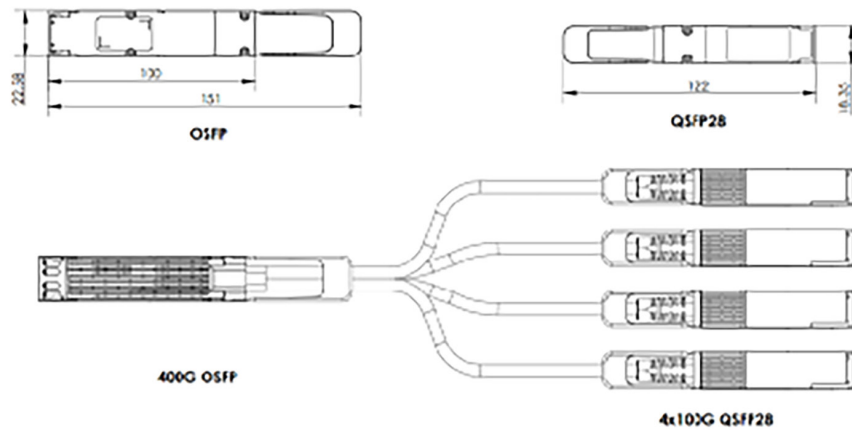
- SNIA SFF-8636 Management Interface for 4 Lane Modules and Cables
- SNIA SFF-8679 QSFP28 Electrical Specification
- Common Management Interface Specification (CMIS) v3.0
- OSFP MSA v2.0 Compliant

## 1. General Product Characteristics

Parameter	Value
Module Form Factor	OSFP and QSFP28
Number of Data Lanes	QSFP28 8 TX and 8 RX per Module (PAM4)
	QSFP28 Line Side: 2 TX and 2 RX per module (PAM4) Host Side: 4 TRX and 4 RX per module (NRZ)
Maximum Aggregate Data Rate	400Gbps
Nominal Data Rate per Lane	OSFP: 53.125Gbps (PAM4), KP4 FEC must be enabled
	QSFP28: 25.78125Gbps (NRZ) KP4 FEC must be enabled
Electrical Interface and Pin-out	60-pin edge connector (OSFP) and 38-pin edge connector (QSFP)
Pin Description	Per OSFP Hardware Specification (OSFP) and per SFF-8679 (QSFP28)

Management Interface	1°C, serial, timing per Common Management Interface Specification for 8X/16X Pluggable Transceivers (OSFP)
	1°C, serial, timing per SFF-8636 (QSFP)
Length of Copper AEC	3m, 5m
BER (Post-FEC)*	<10 <sup>-8</sup> *Tested with QPRBS31 pattern
BER (Post-FEC)*	<10 <sup>-15</sup> *Tested with QPRBS31 pattern

## 2. Mechanical Diagram



**Note:** External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.

## 3. Mechanicals

Parameter	Cable Type	Typical
Diameter	4P 30AWG	5.3mm
<b>OSFP End</b>		
Minimum bend radius	4P 30AWG x 4	90.0mm
Minimum bend radius	4P 26AWG x 4	
<b>QSFP28 End</b>		
Minimum bend radius	4P 30AWG	54.5mm
Minimum bend radius	4P 26AWG	

## 4. Ordering Information

Part Number	Length	AWG	Weight
OS4004Q28-AEC-3M-3	3 meters	30	810g
OS4004Q28-AEC-5M-3	5 meters	30	1,210g

## 5. Contact Information

Tel: 800.590.9535

Web: <http://www.approvednetworks.com>