

Features:

- Recognizable, purple PVC jacket (with fire retardant coating)
- 400G to 4x100G with gearbox function
- SFF-8636 compliant
- Single 3.3V power supply
- Low power consumption:
 - Typ 8.5W power dissipation (QSFP-DD end)
 - Typ 3.5W power dissipation (QSFP28 end)
- BER < 10⁻¹⁵ (post FEC)
- Hot pluggable
- RoHS2 compliant
- I2C management interface
- Operating case temperature range: 0°C to +70°C



Standards:

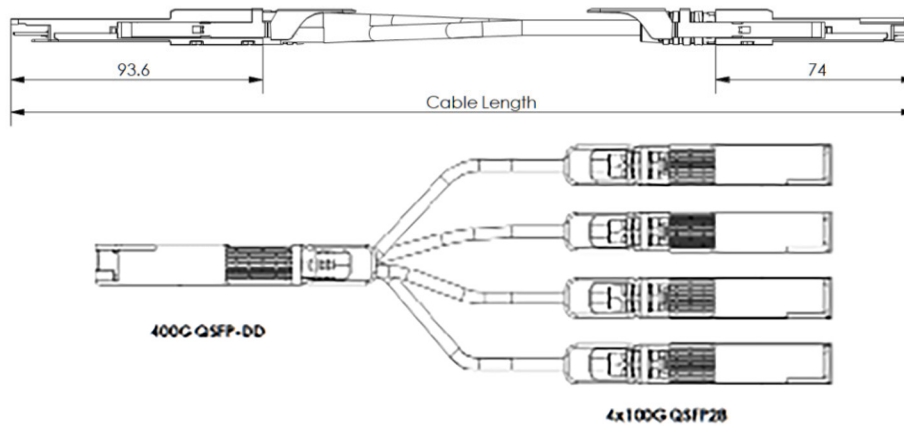
- SNIA SFF-8636 Management Interface for 4 Lane Modules and Cables
- SNIA SFF-8679 QSFP28 Electrical Specification
- Common Management Interface Specification (CMIS) v3.0
- QSFP-DD MSA v3.0

1. General Product Characteristics

Parameter	Value
Module Form Factor	QSFP-DD type 2 and QSFP28
Number of Data Lanes	QSFP-DD 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	QSFP-DD: 53.125Gbps (PAM4), KP4 FEC must be enabled
	QSFP28: 25.78125Gbps (NRZ), KP4 FEC must be enabled
Electrical Interface and Pin-out	76-pin edge connector (QSFP-DD) and 38-pin edge connector (QSFP28)
Pin Description	Per QSFP-DD Hardware Specification (QSFP-DD) and per SFF-8679 (QSFP28)

Management Interface	I2C, serial, timing per Common Management Interface Specification for 8X/16X Pluggable Transceivers (QSFP-DD)
	I2C, serial, timing per SFF-8636 (QSFP28)
Length of Copper AEC	3m, 5m, 7m
BER (Pre-FEC)*	<10 ⁻⁸ *Tested with QPRBS31 pattern
BER (Post-FEC)*	<10 ⁻¹⁵ *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
QSFP-DD End		
Minimum bend radius	4P 30AWG x 4	90.0mm
QSFP28 End		
Minimum bend radius	4P 30AWG	54.5mm

4. Ordering Information

Part Number	Length	AWG	Weight
QDD4004Q28-AEC-3M-3	3 meters	30	810g
QDD4004Q28-AEC-5M-3	5 meters	30	1,210g
QDD4004Q28-AEC-7M-3	7 meters	30	1,610g

5. Contact Information

Tel: 800.590.9535

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