

# QSFP-DD SR8

## 400 Gbps Rate Transceiver

### Description:

OPTOKON **400G QSFP-DD (Double Density) SR8** module supports link lengths of up to 100m over multimode fiber (MMF) with MTP/MPO-16 connector. It is compliant to IEEE 802.3cd protocol and PAM4 modulation format.

The **400G QSFP-DD SR8** high-speed optical transceiver find applications in cloud computing and other technologies associated with the construction of data centers.



### Features:

- Support 26.5625 GBd Data rate per channel
- Maximum link length of 70m links on OM3 MM fiber or 100m links on OM4 MM fiber
- High Reliability 850nm VCSEL technology
- Electrically hot-pluggable
- Digital diagnostic QSFP-DD-CMIS compliant
- Compliant with QSFP-DD MSA
- Standard 16 lane with MPO connector
- Case operating temperature range: 0°C to 70°C
- Power dissipation < 10 W

### Standards:

- Compliant to IEEE 802.3cd
- Compliant to QSFP-DD MSA

### Recommended operating conditions:

<i>Parameter</i>	<i>Min</i>	<i>Typ</i>	<i>Max</i>	<i>Unit</i>	<i>Note</i>
Storage Temperature	-40		85	°C	
Case operating temperature	0	-	70	°C	Without air flow
Relative humidity	5	-	95	%	
Power supply voltage	3.14	3.3	3.46	V	
Power supply voltage (Max.rating)	-0.3		4	V	
Data rate (Electrical)		26.5625		GBd	Each channel
Transmission distance			100	m	
Coupled fiber	Multi mode fiber				100m OM4 or 70m OM3

## Optical characteristics:

### Transmitter

Parameter	Min	Typ	Max	Unit	Note
Wavelength	840	850	860	nm	
Data rate (range)		26.5625		GBd	
Data rate variation	-100		100	PPm	
Average launch power	-6		4	dBm	1
Average launch power off per lane			-30	dBm	

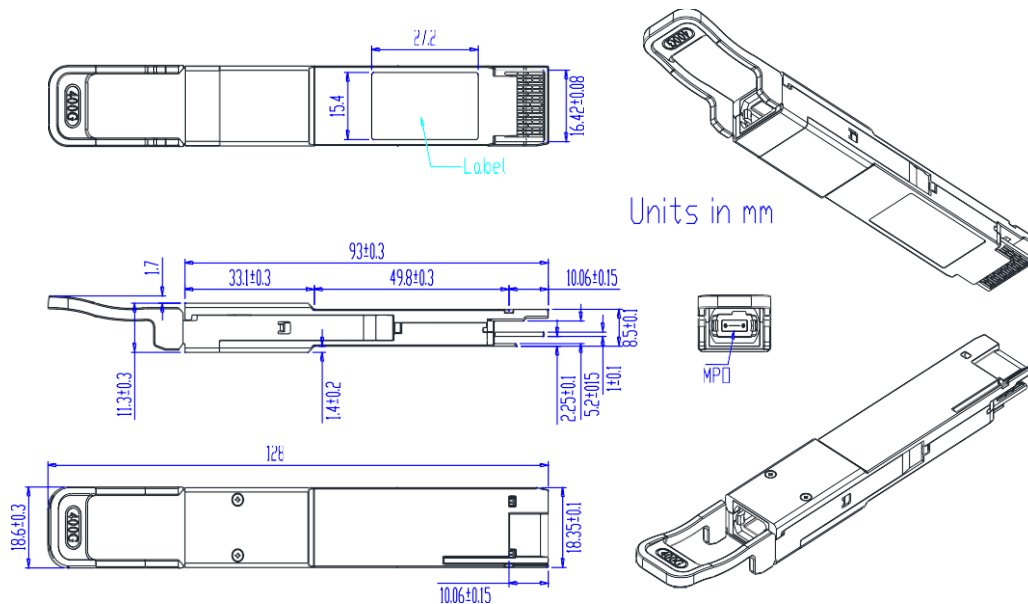
### Receiver

Parameter	Min	Typ	Max	Unit	Note
Average receiver power	-7.9		4	dBm	
Receiver sensitivity (OMA), (BER = 2.4E- 4)			-7	dBm	
Damage threshold	5			dBm	2
Receiver reflectance (max)			-12	dB	
Overload receiver power (Overload)	4			dBm	

#### Notes:

- 1) Average launch power (min) is informative and not the principal indicator of signal strength. A transmitter with launch power below this value cannot be compliant; however, a value above this does not ensure compliance.
- 2) The receiver shall be able to tolerate, without damage, continuous exposure to an optical input signal having this average power level.

## Outline Dimension:



## Ordering code:

Code	Description
M400G-QP-DD-SR8-01-D-XX	400 Gbps, QSFP-DD, up to 100 m, 0°C to +70°C, MPO connector (16 lane)