DATA SHEET

Transceivers
400G QSFP56-DD PAM4 SR8
CQM-100A03

Properties

- Protocol 400G Ethernet
- PAM4 Modulation
- Data rate 425 Gbps
- Reach up to 100m
- Wavelength 850nm
- MPO/MTP-16 connector
- Multimode fiber
- Temp. range 0 ... 70°C
- Link budget at least 3 dB
- Power consumption < 10 W



General data	
Form factor	QSFP56-DD
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	400G Ethernet
Data rate standards	400GBASE-SR8
Media type	Multimode
Connector	MTP/MPO-16
Modulation Format	PAM4
Built-in FEC	No
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 2700 mA
Power consumption	< 10 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1M

Absolute Maximum Ratings	
Max. supply voltage range	-0.3 V ... 4 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

Transmitter Specifications	
Laser Type	VCSEL
Operating Wavelength Range	840 nm ... 860nm
Grid	None

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Transmitter Specifications	
Average launch power per lane	-6 dBm ... 4 dBm
Outer Optical Modulation Amplitude (OMA)	-4 dBm ... 3 dBm
Extinction Ratio	> 3 dB
Side Mode Suppression	> 30 dB
Supported Data rate	425 Gbps
OMA - TDECQ	-5.9dBm

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	840 nm ... 860nm
Receiver Overload	> 4 dBm
Receiver Sensitivity (OMA)	< -7 dBm
Maximum Optical Input Power per Lane (Overload)	5 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	425 Gbps
Average receive power per lane	-7.9 dBm ... 4 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQM-100A03xxxx-85	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-85: 850nm

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