

QSFP28 100G PSM4 TRANSCEIVER

QCM-906A04 PARALLEL TRANSCEIVER

PRODUCT OVERVIEW

Properties

- Protocol 100G Ethernet
- Data Rate 103.125 Gbps
- Reach up to 2km
- Wavelength 1310nm
- MPO/MTP-12 Adapter
- Singlemode Fibre
- Temperature Range 0 ... 70°C
- Link Budget At Least 4 dB



General Data

Form Factor	QSFP28
Data Rate Standards	100GBASE-PIR4
Protocol	100G Ethernet
Media Type	SMF28
Supply Current	< 1060 mA
Adapter	MPO/MTP-12 (APC)
CDR	Double
Operation Temperature	0°C ... 70°C
Supply Voltage Typical	3.13 V ... 3.47 V
Power Consumption	< 3.5 W
Digital Diagnostic Management (DDM)	Built-in
Laser Hazard Level	1

Absolute Maximum Ratings

Maximum Supply Voltage Range	-0.3 V ... 4 V
Maximum Storage Temperature Range	-40°C ... 85°C
Maximum Relative Humidity Range	5 % ... 95 %



Transmitter Specifications

Laser Type	DML
Operating Wavelength Range	1260 nm ... 1355nm
Grid	None
Average Launch Power Per Lane	-6 dBm ... 2 dBm
Total Optical Output Power	< 9.5 dBm
Extinction Ratio	> 3.5 dB
Side Mode Suppression	> -30 dB
Supported Data Rate	103.125 GB/s

Receiver Specifications

Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1355nm
Receiver Overload	> 4.5 dBm
Receiver Sensitivity	< -10.1 dBm
Maximum Optical Input Power per Lane	4.5 dBm
LOS De-Assert	> -18 dBm
Receiver LOS Assert	< -12 dBm
Receiver LOS Hysteresis	> 0.5
Supported Data Rate	103.125 GB/s

Ordering Information

Part Code	Compatibility Code Explanation	Wavelength Code Explanation
CQS-906A04xxxx-13	"xxxx" is an alphanumeric string, describing the compatibility. "0000" means no special coding to ensure compatibility with a special switch type.	-13: 1310nm