QSFP56-200GB-DR4-AR-SKY

Arista Networks® Compatible 200GBase-DR4 QSFP56 Transceiver (SMF, 1310nm, 500m, MPO, DOM) CMIS 4.0

Product Description

This Arista Networks® compatible QSFP56 transceiver provides 200GBase-DR4 throughput up to 500m over single-mode fiber (SMF) using a wavelength of 1310nm via an MPO connector. Our transceiver is built to meet or exceed OEM specifications and is guaranteed to be 100% compatible with Arista Networks®. It has been programmed, uniquely serialized, and tested for data-traffic and application to ensure that it will initialize and perform identically. All of our transceivers comply with Multi-Source Agreement (MSA) standards to provide seamless network integration. Additional product features include Digital Optical Monitoring (DOM) support which allows access to real-time operating parameters. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

Skylane's transceivers are RoHS compliant and lead-free.

Features:

- 4x53.125G PAM4 Electrical Interface (200GAUI-4)
- MPO-12/APC Connector
- Supports 212.5Gbps Aggregate Bit Rate
- Hot-Pluggable QSFP56 Form Factor
- Transmission Length Up to 500m with SMF
- Single +3.3V Power Supply
- Operating Temperature: 0 to 70 Celsius
- Low Power Dissipation: < 5.0W
- RoHS Compliant and Lead-Free
- CMIS 4.0 Compliant

Applications:

- 200GBase Ethernet

For your product safety, please read the following information carefully before any manipulation of the transceiver:

ESD

This transceiver is specified as ESD threshold 1kV for SFI pins and 2kV for all others electrical input pins, tested per MIL-STD-883G, Method 3015.4 /JESD22-A114-A (HBM). However, normal ESD precautions are still required during the handling of this module.

LASER SAFETY

This is a Class1 Laser Product according to IEC 60825-1:2007. This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated (June 24, 2007).

The optical ports of the module need to be terminated with an optical connector or with a dust plug in order to avoid contamination.

Operating Conditions

Parameter	Symbol	Min.	Max.	Unit
Operating Case Temperature	Tc	0	70	°C
Supply Voltage	VccT, VccR	3.135	3.465	V
Total Power Consumption	PC		5.0	W

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Data Rate	DR		26.5625		Gbd	1
Transmitter						
Differential Peak-to-Peak Input Voltage Tolerance	VIN	300		900	mV	
Differential Termination Mismatch		-10		10	%	
Receiver						
Differential Peak-to-Peak Output Voltage Tolerance	VOUT	300		900	mV	
DC Common-Mode Voltage		-350		2850	mV	
Differential Termination Mismatch		-10		10	%	

Notes:

1. Per lane.

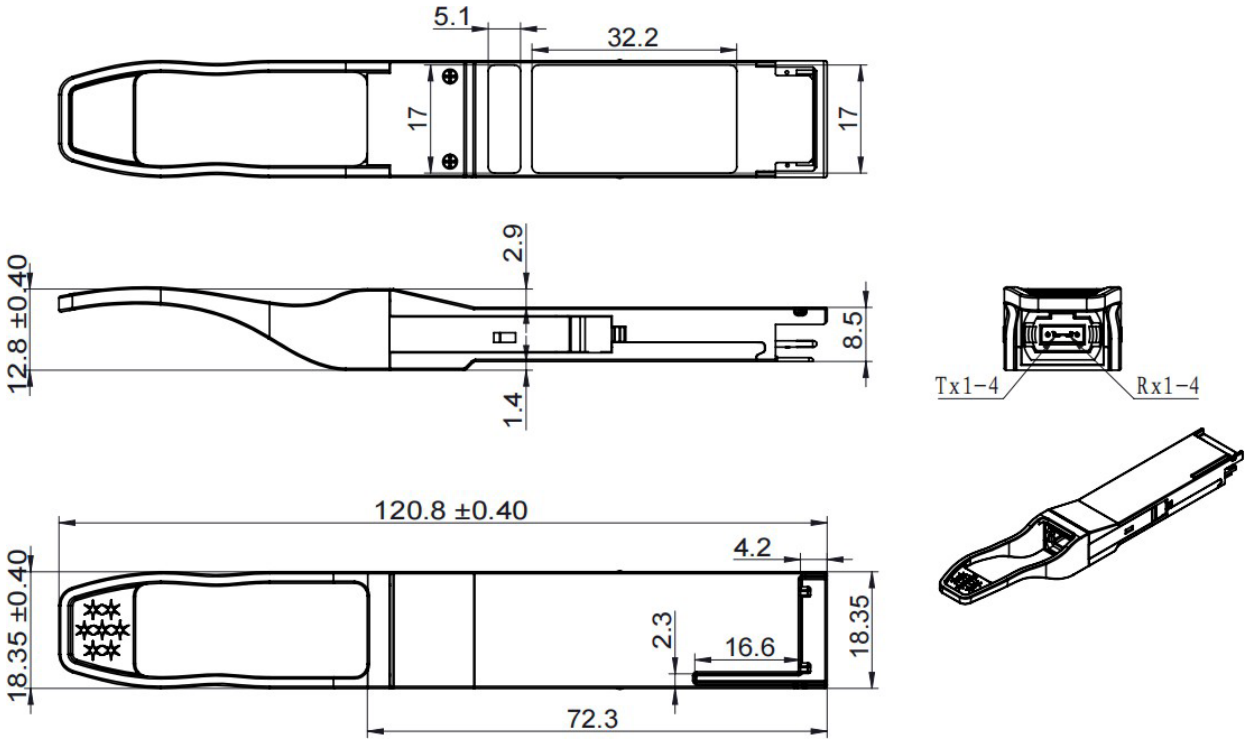
Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Transmitter Per Lane						
Center Wavelength	L0	1304.5		1317.5	nm	
	L1	1304.5		1317.5	nm	
	L2	1304.5		1317.5	nm	
	L3	1304.5		1317.5	nm	
Side-Mode Suppression Ratio	SMSR	30.0			dB	
Average Optical Power	PAVE	-5.1		3.0	dBm	
Average Optical Power (OMA)	POMA	-3.0		2.8	dBm	
Extinction Ratio	ER	3.5			dB	
Transmission and Dispersion Eye Closure for PAM4	TDECQ			3.4	dB	
Optical Return Loss Tolerance	ORL			21.4	dB	
Transmitter Reflectance	TR			-26.0	dB	
Receiver Per Lane						
Damage Threshold	DTH	4.0			dBm	
Average Receiver Power		-8.1		3.0	dBm	
Receiver Reflectance	Rfl			-26.0	dB	
Receiver Sensitivity (OMAouter)	SEN_{OMA}			-6.6	dBm	
Stressed Receiver Sensitivity (OMAouter)				-4.1	dBm	1

Notes:

1. Measured at 2.4×10^{-4} BER conformance test signal at TP3 for the BER specified in IEEE 802.3 200GBase-DR4.

Mechanical Specifications



About Skylane Optics

Skylane is a leading provider of transceivers for optical communication.

We offer an extensive portfolio for the enterprise, access, datacenter and metropolitan fiber optical market as well as for smart home applications and home networks.

We cover the European, South American and North American market with a strong partner network and have offices in Belgium, Brazil, Sweden and USA.

Our offerings are characterized by high quality and performance. In combination with our strong technical support, we enable our customers to build cost optimized network solutions.

We offer an extensive range of high-quality products including transceivers (Optical and copper), Active Optical Cable (AOC), Direct Attach Cable (DAC), Mux/Demux, Coding Box.