



Araknis Networks Transceiver Modules

100GBase-SR4, 850nm, 100m

AN-SFP-100-F-100

This Araknis Networks QSFP28 Transceiver Module supports 100Gbps data transfer speeds over a 100-meter distance, making it ideal for any application requiring high-speed data transfers. The transceiver module is compatible with 850nm fiber optic cables with multi-mode compatibility. It works best with Araknis Networks switches featuring QSFP28 ports and requiring high-speed 100Gbps data transfers.

Product Features

- Support 100GBASE-SR4/100G Fiber Channel application
- Compliant to QSFP28 Electrical MSA SFF-8636
- Transmission distance up to 100m (OM4)
- 100 GBASE-SR4
- Operating case temperature: Commercial (0 to +70°C)
- RoHS 6/6 compliant



Best Used with Araknis Networks

This QSFP28 transceiver module pairs best with the Araknis Networks AN-920 switch and requires the Araknis Networks QSFP28 100Gbps Expansion Module (AN-SFP-100G-10).



Designed for Fiber Optic Cables

Description: This SFP+ transceiver module supports 850nm fiber optic cables with multi-mode capabilities.



High-speed Data Transfer

This transceiver module is designed primarily for commercial installations that require 100GBase-SR4 compliance up to 100 meters.

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Absolute Maximum Ratings

Parameter	Min	Typ	Max	Notes/Conditions
Supply Voltage	-0.5V		+3.6V	
Storage Temperature	-40°C		+85°C	
Operating Humidity	+5%		+85%	No Condensation
Receiver Damage Threshold per Lane	+3.4dBm			

Recommended Operating Conditions

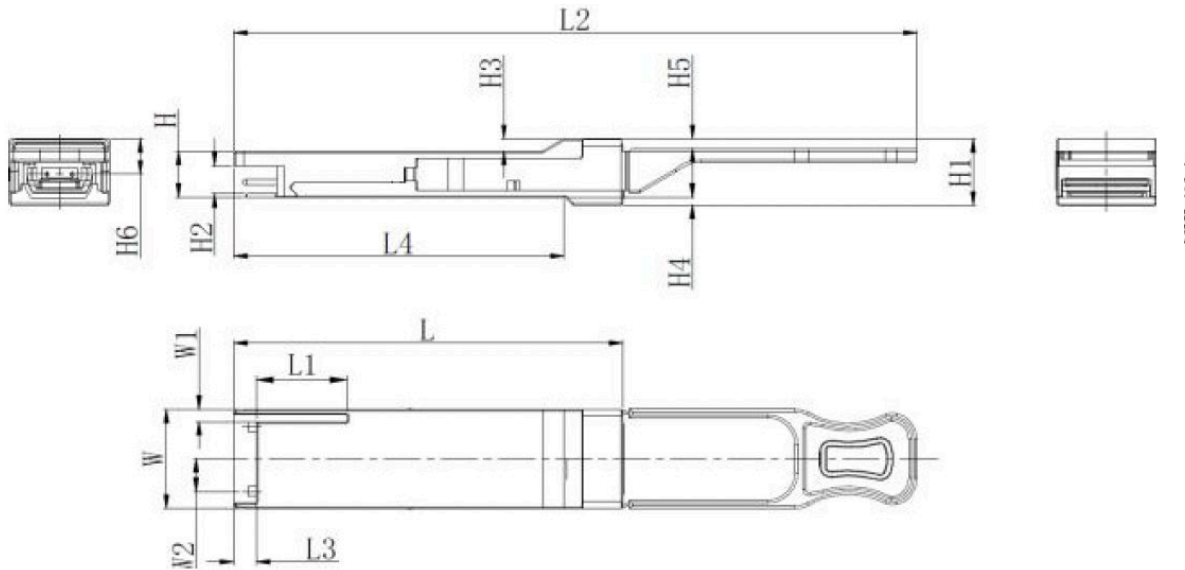
Parameter	Min	Typ	Max	Notes/Conditions
Operating Case Temperature	0°C		+70°C	
Power Supply Voltage	3.14V	3.3V	3.47V	
Power Dissipation			2.5W	

Optical Characteristics

Parameter	Min	Typ	Max	Notes/Conditions
Transmitter				
Bit Rate	10.3125Gbps	25.78125Gbps		
Center Wavelength Range	830nm	850nm	860nm	
RMS Spectral Width			0.6nm	
Average Launch Power Tx_off			-30dBm	
Launch Optical Power	-6dBm		-2.4dBm	Coupled into 50/125 MMF.
Extinction Ratio	2dB			
Receiver				
Bit Rate	10.3125Gbps	25.78125Gbps		
Sensitivity@BER=E-12			-5.2dBm	
Sensitivity@BER=5E-5			-10.3dBm	
Overload Input Optical Power	2.4dBm			Measured with PRBS 231-1 test pattern @25.78125Gbps. BER=E-12
Center Wavelength Range	840nm		860nm	
LOS Assert	-30dBm (LOS _A)		-12dBm (LOS _D)	
LOS Hysteresis	0.5dB			

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Mechanical Dimensions



Mechanical Diagram Unit mm

Parameter	L	L1	L2	L3	L4	W	W1	W2	H	H1	H2	H3	H4	H5	H6
Min	66.8	16.5	124	4.05	61.0	18.25	2.2	5.8	8.4	12.0	5.05	2.1	1.3	1.6	
Typ	72			4.20	61.2	18.35			8.5	12.2	5.2	2.3	1.5	1.8	6.55
Max	72.2		128	4.35	61.4	18.45		6.2	8.6	12.4	5.35	2.5	1.6	2.0	

Warnings

Handling Precautions: This device is susceptible to damage as a result of electrostatic discharge (ESD). A static free environment is highly recommended. Follow guidelines according to proper ESD procedures.

Laser Safety: Radiation emitted by laser devices can be dangerous to human eyes. Avoid eye exposure to direct or indirect radiation.