DSFP-100GB-AOC10M-AR-OPC

Arista Networks Compatible TAA 100GBase-AOC DSFP Active Optical Cable (850nm, MMF, 10m, CMIS 4.0)

Features

- Compliant with IEEE 802.3-2018
- 2x26.5625GBD PAM4 Active Optical Cable
- Compliant to the DSFP MSA Transceiver Specifications
- Low Power Dissipation: 2.5W Per Cable End
- Hot-Pluggable
- Operating Temperature: 0 to 70 Celsius
- RoHS Compliant and Lead-Free

Applications:

- 100GBase Ethernet

Product Description

This Arista Networks® compatible DSFP to DSFP transceiver provides 100GBase-AOC throughput up to over Fiber using a wavelength of 850nm via a DSFP 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. This transceiver is Trade Agreements Act (TAA) compliant. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

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

Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Supply Voltage	Vcc	-0.5		3.6	V	
Storage Temperature	Tstg	-40		85	°C	
Operating Case Temperature	Tc	0		70	°C	
Relative Humidity	RH	15		85	%	
Data Rate	DR		26.5625		GBd	±100ppm
Bit Error Rate	BER				$1E^{-8}$	

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Power Dissipation	P_{DISS}			2.5	W	
Module Supply Voltage	Vcc	3.13	3.3	3.47	V	
Supply Current	Icc			796	mA	
Receiver						
AC Common-Mode Input Voltage				17.5	mV	RMS
Differential Peak-to-Peak Input Voltage				900	mV	
FEC Symbol Error				5		

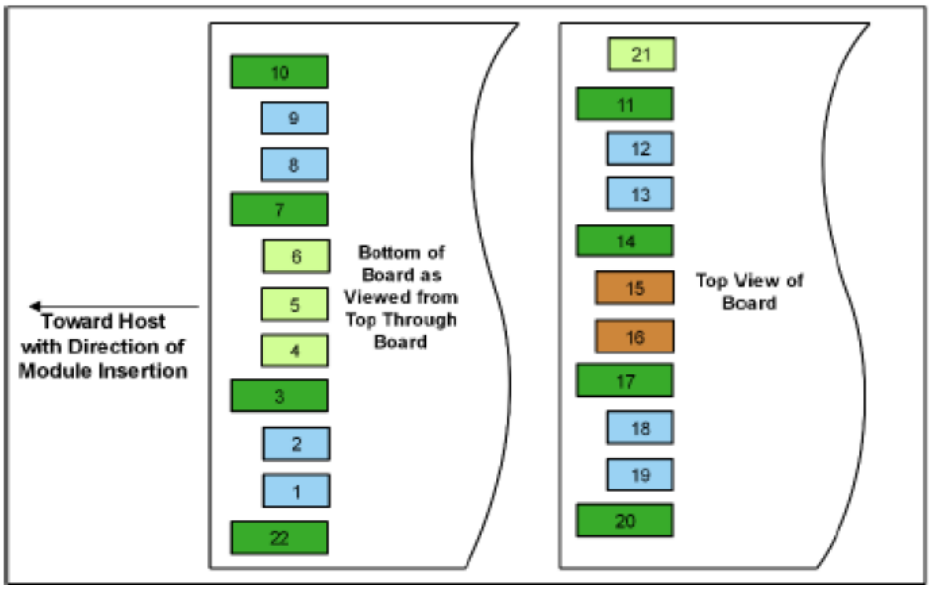
Optical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Transmitter						
Center Wavelength	λC	840		860	nm	
Optical Power Output	PO	-6.5		4	dBm	
Spectral Width	Δλ20			0.6	nm	
Extinction Ratio	ER	3			dB	
Receiver						
Near-End ESMW	EW		0.265		UI	
Near-End Eye Height	EH	70		mV		
Far-End ESMW			0.2			
Far-End Eye Height		30		UI		
Far-End Pre-Cursor ISI Ratio		-4.5		3.5	%	

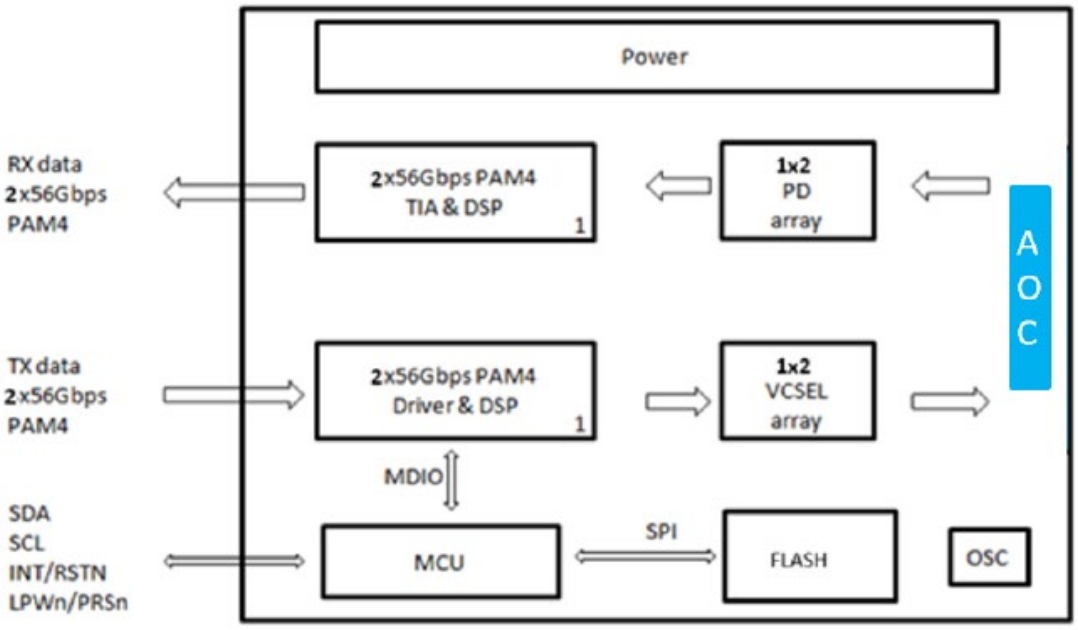
Pin Descriptions

Pin	Logic	Symbol	Sequence	Name/Description	Notes
1	CML-I	TD2-	3	Transmitter Inverted Data Input Lane 2.	
2	CML-I	TD2+	3	Transmitter Non-Inverted Data Input Lane 2.	
3		GND	1	Module Ground.	
4	LVTTL-I/O	SDA	3	2-Wire Serial Interface Data.	
5	LVTTL-I/O	SCL	3	2-Wire Serial Interface Clock.	
6	Multi-Level-I/O	LPWn/PRSn	3	Low-Power Mode/Module Present (MOD_ABS).	
7		GND	1	Module Ground.	
8	CML-O	RD2+	3	Receiver Non-Inverted Data Output Lane 2.	
9	CML-O	RD2-	3	Receiver Inverted Data Output Lane 2.	
10		GND	1	Module Ground.	
11		GND	1	Module Ground.	
12	CML-O	RD1-	3	Receiver Inverted Data Output Lane 1.	
13	CML-O	RD1+	3	Receiver Non-Inverted Data Output Lane 1.	
14		GND	1	Module Ground.	
15		Vcc	2	Module +3.3V Power Supply.	
16		Vcc	2	Module +3.3V Power Supply.	
17		GND	1	Module Ground.	
18		TD1+	3	Transmitter Non-Inverted Data Input Lane 1.	
19		TD1-	3	Transmitter Inverted Data Input Lane 1.	
20		GND	1	Module Ground.	
21	Multi-Level-I/O	INT/RSTn	3	Dual-Function Module Interrupt and Reset Pin.	
22		GND	1	Module Ground.	

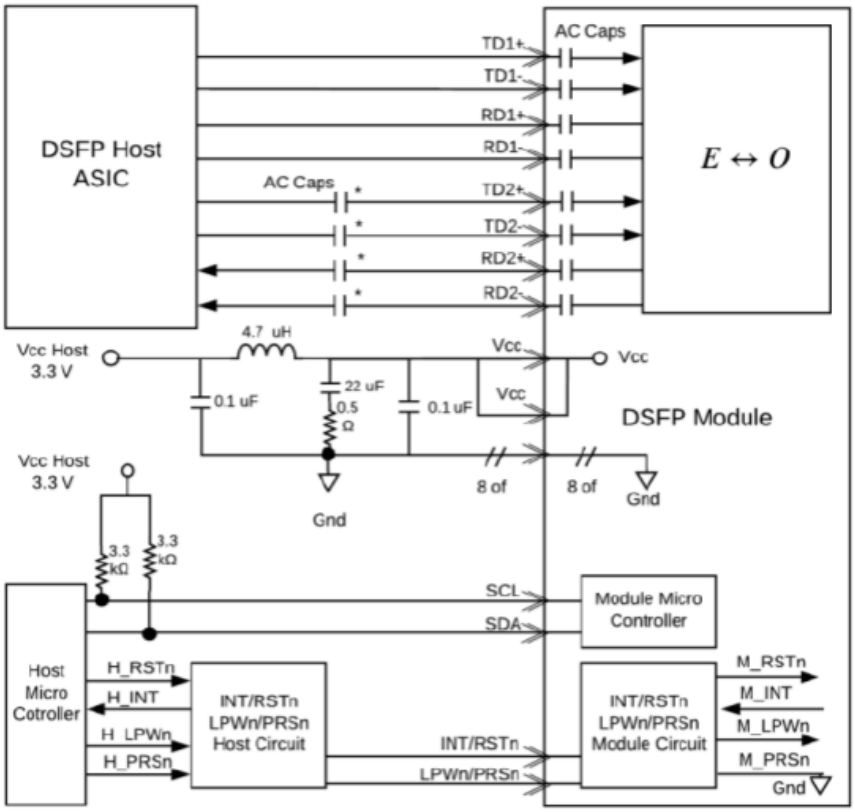
Electrical Pin-Out Details



Block Diagram

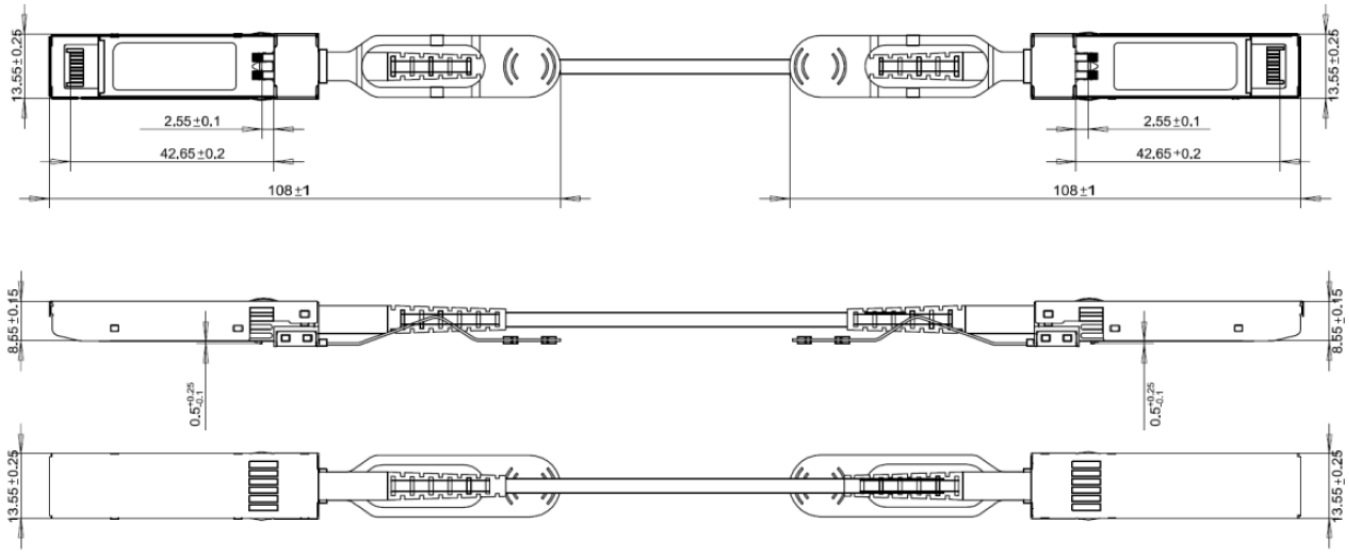


Recommended Interface Circuit



Notes: Host AC caps allow SFP+ backward compatibility. If SFP+ modules will never be plugged in, the host AC caps can be omitted.

Mechanical Specifications



OptioConnect
Innovation for the Future of High-Speed Networking

Who We Are
OptioConnect is reshaping the landscape of communication and high-speed networking through intelligent technology. With a core focus on cutting edge technology, we deliver smarter fiber optic solutions for enterprise networks, data centers, and next-gen telecom infrastructures.

What We Do
At OptioConnect, we fuse advanced engineering with intelligent automation to drive the future of networking. Our AI-integrated solutions are designed to optimize performance and streamline operations with:

- Superior Performance
- Network and traffic optimization
- Intelligent energy management
- Seamless OEM compatibility
- Scalable cost-efficiency

Smarter Networks by Design
Innovation isn't just a goal—it's our process. We embed AI and machine learning across our R&D and product lines, enabling adaptive performance, automated tuning, and faster deployment cycles. The result? Networks that don't just work—they learn, evolve, and outperform.

Our Team
Our engineers, data scientists, and network architects bring decades of experience and a future-focused mindset. We provide hands-on support with intelligent insights that turn complex challenges into simple solutions.

Our Mission
To deliver AI-enhanced connectivity that reduces cost, increases speed, and maximizes efficiency—empowering our partners to operate at the forefront of a rapidly evolving digital world.

Let's Connect
Discover how OptioConnect's intelligent infrastructure solutions can power your network's next leap forward.
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