



SFP-10G-TL2-AR-OPC

Arista Networks® SFP-10G-T-AR Compatible TAA 100/1000/10000Base-TX SFP+ Transceiver (Copper, 30m, RJ-45)

Features

- SFF-8432 and SFF-8431 MSA Compliant
- RJ-45 Connector
- IEEE 802.3az Compliant
- Supports 10GBase-T Using an 80m Cat6a/7 Cable
- Commercial Temperature 0 to 70 Celsius
- Low Power Consumption: 1.6W @10Gbps 30m, 2.0W @10Gbps 80m
- Support Hot Pluggable
- RoHS Compliant and Lead-Free



Applications:

- 10GBase Ethernet
- Access and Enterprise

Product Description

This Arista Networks® SFP-10G-T-AR compatible SFP+ transceiver provides 10GBase-TX throughput up to 30m over a copper connection via a RJ-45 connector. This TX module supports 100/1000/10000Base auto-negotiation and can be configured to fit your needs. It is guaranteed to be 100% compatible with the equivalent Arista Networks® transceiver. This easy to install, hot swappable transceiver has been programmed, uniquely serialized and data-traffic and application tested to ensure that it will initialize and perform identically. It is built to meet or exceed the specifications of Arista Networks®, as well as to comply with MSA (Multi-Source Agreement) standards to ensure 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
Maximum Supply Voltage	Vcc	-0.5		4	V	
Storage Temperature	Tstg	-40		85	°C	1
Operating Case Temperature	Tc	0		70	°C	2
Data Rate	DR		10		Gbps	3
Bit Error Rate	BER			10 ⁻¹²		

Notes:

1. Ambient temperature.
2. Case temperature.
3. IEEE 802.3ae.

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Notes
Power Supply Voltage	Vcc	3.14	3.3	3.46	V	
Supply Current	Icc		590		mA	1
Surge Current	I _{surge}			30	mA	
Power Consumption @ 10Gbps 30m				1.6	W	
Power Consumption @ 10Gbps 80m				2.0	W	

Notes:

1. Test at 10Gbps rate using 80m Cat6a cable.

Pin Descriptions

Pin	Symbol	Name/Description	Notes
1	VeeT	Transmitter Ground (Common with Receiver Ground).	1
2	Tx_Fault	Transmitter Fault. Not Supported.	
3	Tx_Disable	Transmitter Disable. PHY disabled on “high” or “open.”	2
4	SDA	2-Wire Serial Interface Data.	3
5	SCL	2-Wire Serial Interface Clock.	3
6	MOD_ ABS	Module Absent. Grounded within the module.	3
7	RS0	No Connection Required.	
8	LOS	Loss of Signal Indication. “Logic 0” indicates normal operation.	
9	RS1	No Connection Required.	
10	VeeR	Receiver Ground (Common with Transmitter Ground).	1

11	VeeR	Receiver Ground (Common with Transmitter Ground).	1
12	RD-	Receiver Inverted Data Out. AC Coupled.	
13	RD+	Receiver Non-Inverted Data Out. AC Coupled.	
14	VeeR	Receiver Ground (Common with Receiver Ground).	1
15	VccR	Receiver Power Supply.	
16	VccT	Transmitter Power Supply.	
17	VeeT	Transmitter Ground (Common with Receiver Ground).	1
18	TD+	Transmitter Non-Inverted Data In. AC Coupled.	
19	TD-	Transmitter Inverted Data In. AC Coupled.	
20	VeeT	Transmitter Ground (Common with Receiver Ground).	1

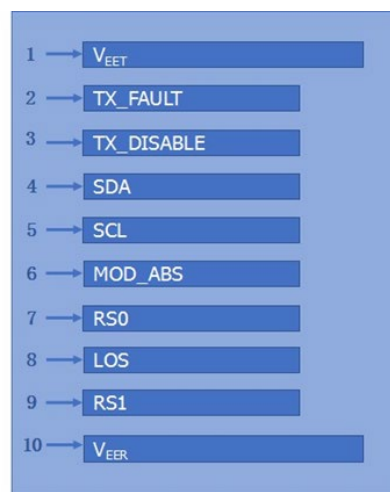
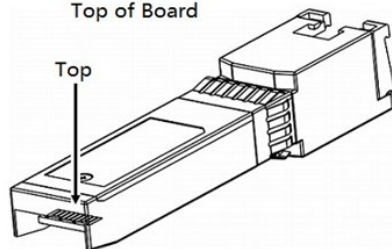
Notes:

1. Circuit ground is connected to the chassis ground.
2. Disabled: $T_{DIS} > 2V$ or open, enabled: $T_{DIS} < 0.8V$.
3. Should be pulled up with 4.7k Ω to 10k Ω on the host board to a voltage between 2V and 3.6V.

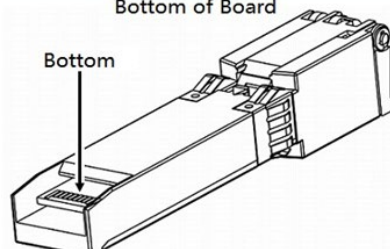
Electrical Pad Layout



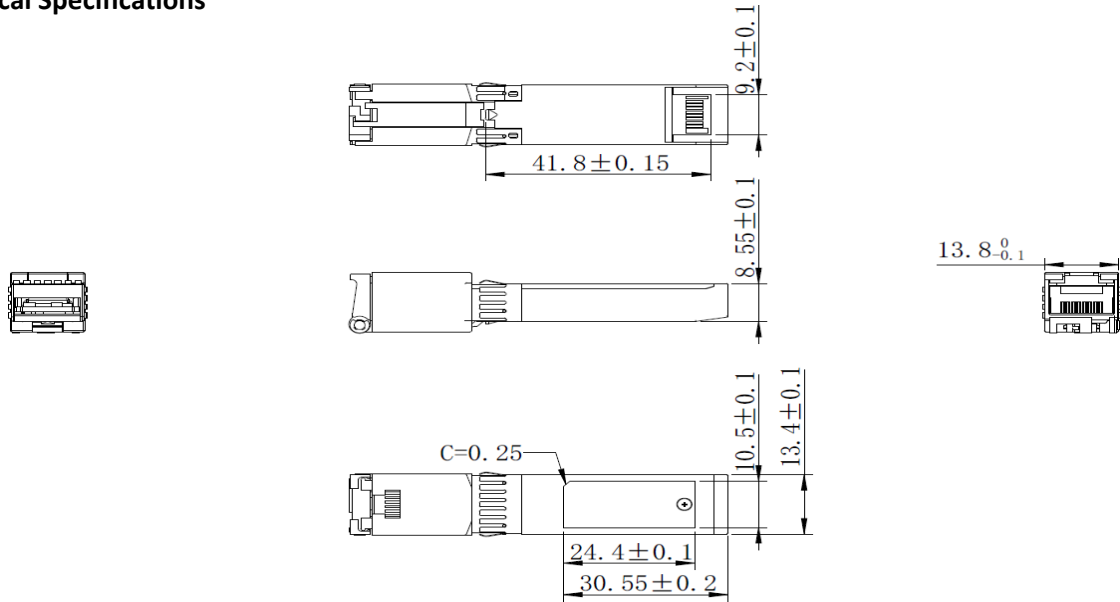
Top of Board



Bottom of Board



Mechanical Specifications



All Dimensions are $\pm 0.2\text{mm}$ Unless Otherwise Specified

Unit: mm

Weight: 25g

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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