

SFP-10G-TL2-AR-PRO

Arista Networks® SFP-10G-TL2-AR Compatible TAA Compliant 10GBase-TX SFP+ Transceiver (Copper, 30m, 0 to 70C, RJ-45)

Features

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



Applications:

- 10GBase Ethernet
- Access and Enterprise

Product Description

This Arista Networks® SFP-10G-TL2-AR compatible SFP+ transceiver provides 10GBase-TX throughput up to 30m over a copper connection via a RJ-45 connector. This TX module supports 10GBase 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.

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

TAA refers to the Trade Agreements Act (19 U.S.C. & 2501-2581), which is intended to foster fair and open international trade. TAA requires that the U.S. Government may acquire only "U.S. – made or designated country end products.



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

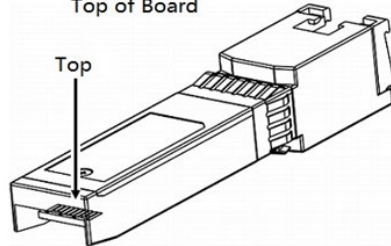
Notes:

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 $4.7k\Omega$ to $10k\Omega$ on the host board to a voltage between 2V and 3.6V.

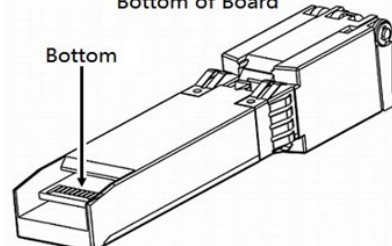
Electrical Pad Layout



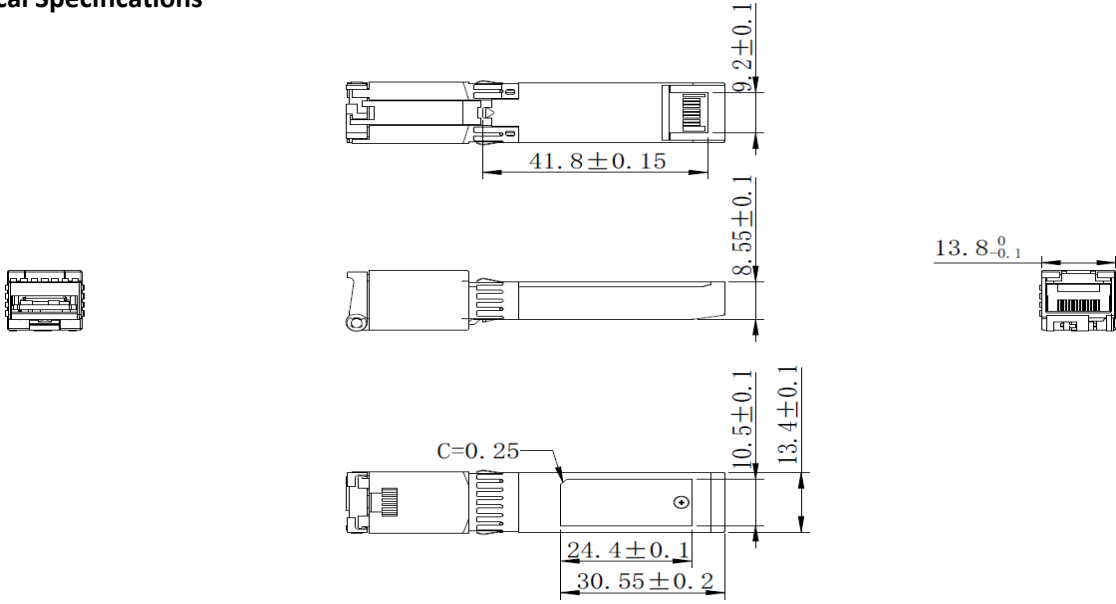
Top of Board



Bottom of Board



Mechanical Specifications



All Dimensions are ± 0.2 mm Unless Otherwise Specified

Unit: mm

Weight: 25g

About Us:

Proline Options is one of North America's leading providers of transceivers and high speed cabling. With a reputation for quality, tested products that cover the connectivity spectrum, Proline Options has a solution for you regardless of the specification.

At Proline Options, every product is tested in its intended application - never batch or spec tested only. We run bandwidth, distance and IOS network tests. We have documented an impressive 0.03% failure rate over the last 10 years. To continue this rate of success we invest millions annually in our own on-site testing lab.



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