

CVR-X2-SFP10G-PRO

Cisco® CVR-X2-SFP10G Compatible TAA Compliant 10GBase-Converter X2 Transceiver (, DOM, 0 to 70C, X2 to SFP+)

Features

- X2 to SFP+ Converter Module
- For 10 Gigabit Ethernet SFP+ port



Applications:

- X2 to SFP+ Converter
- Access and Enterprise

Product Description

This Cisco® CVR-X2-SFP10G compatible X2 to SFP+ converter provides conversion from X2 to SFP+ form factors. It is guaranteed to be 100% compatible with the equivalent Cisco® converter. This easy to install, hot swappable converter has been programmed, uniquely serialized and data-traffic and application tested to ensure that it will initialize and perform identically. Digital optical monitoring (DOM) support is also present to allow access to real-time operating parameters. This converter 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.	Тур.	Max.	Unit	Notes
Storage Temperature	Tstg	-40		85	°C	
Operating Case Temperature	Тс	0		70	°C	
Maximum Supply Voltage	Vcc	-0.5		4.0	V	
Data Rate			10.3125		Gbps	
Relative Humidity	RH			95	%	

SFP+ transceiver Modules that can be plugged into the converter module

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Product Description	
850nm MM 10G SFP+	
1310nm SM 10G SFP+ 10km	
1550nm SM 10G SFP+ 40km	
1310nm SM 10G SFP+ 70km	
CWDM SFP+ 10G	
DWDM SFP+ 10G	

Pin Descriptions

Pin	Symbol	Name/Descriptions	Logic	Notes
1	GND	Electrical Ground.	1	1
2	GND	Electrical Ground.	3	1
3	GND	Electrical Ground.	3	1
4	5.0V	Power.	3	2
5	3.3V	Power.	3	2
6	3.3V	Power.	3	2
7	APS	Adaptive Power Supply.	3	2
8	APS	Adaptive Power Supply.	3	2
9	LASI	Link Alarm Status Interrupt, low active, Open Drain Output A pull-up resistor with $10-22K\Omega$ to $1,2V$ is expected. Logic High: Normal Operation.	1.2V CMOS Open Drain	
10	Reset	Low active Reset Input $10 \text{K}\Omega$ pull-up on Transceiver Logic high = Normal Operation.	1.2V CMOS Open Drain	
11	VENDSPECIFIC	Vendor Specific Pin, Leave unconnected.		5
12	Tx ON/OFF	High active Transmitter Enable Input 10KΩ pull-up on Transceiver Logic high = Transmitter active (normal Operation)	1.2V CMOS Open Drain	
13	RESERVED	RESERVED		
14	MOD DETECT	1kΩ to Ground On Transceiver		
15	VENDSPECIFIC	Vendor Specific Pin, Leave unconnected when not in use		5
16	VENDSPECIFIC	Vendor Specific Pin, Leave unconnected when not in use		5
17	MDIO	Management Data I/O.	1.2V CMOS Open Drain	3
18	MDC	Management Clock Input	1.2V CMOS Open Drain	3
19	PRTAD4	Port Address Bit 4(LOW=0)		
20	PRTAD3	Port Address Bit 3(LOW=0)		
21	PRTAD2	Port Address Bit 2(LOW=0)		
22	PRTAD1	Port Address Bit 1(LOW=0)		
23	PRTAD0	Port Address Bit 0(LOW=0)		
24	VENDSPECIFIC	Vendor Specific Pin,. Leave unconnected when not in use		5
25	APS SET	Feedback Input for APS, Input of APS Setting Resistor		
26	RESERVED	Reserved. Avalanche Photodiode Use.		5
27	APS SENSE	APS Sense Output for APS Control Circuit.		
28	APS	Adaptive Power Supply.		2
29	APS	Adaptive Power Supply.		2
30	3.3V	Power.		2
31	3.3V	Power.		2

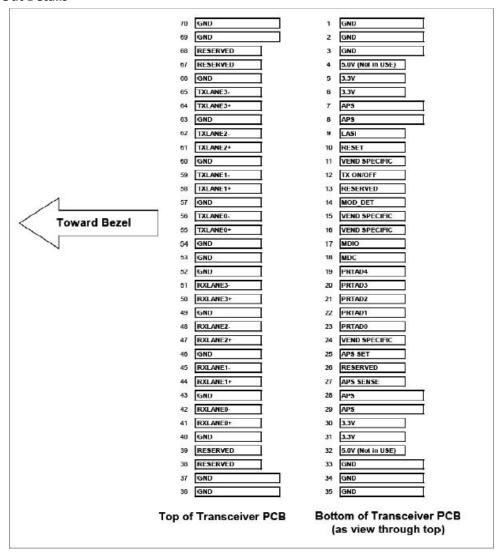
32	5.0V	Power.	2
33	GND	Electrical Ground.	1
34	GND	Electrical Ground.	1
35	GND	Electrical Ground.	1
36	GND	Electrical Ground.	1
37	GND	Electrical Ground.	1
38	RESERVED	Reserved.	
39	RESERVED	Reserved.	
40	GND	Electrical Ground.	1
41	RX LANE 0+	Module XAUI Output Lane 0+.	4
42	RX LANE 0-	Module XAUI Output Lane 0	4
43	GND	Electrical Ground.	1
44	RX LANE 1+	Module XAUI Output Lane 1+.	4
45	RX LANE 1-	Module XAUI Output Lane 1	4
46	GND	Electrical Ground.	1
47	RX LANE 2+	Module XAUI Output Lane 2+.	4
48	RX LANE 2-	Module XAUI Output Lane 2	4
49	GND	Electrical Ground.	1
50	RX LANE 3+	Module XAUI Output Lane 2+.	4
51	RX LANE 3-	Module XAUI Output Lane 2	4
52	GND	Electrical Ground.	1
53	GND	Electrical Ground.	1
54	GND	Electrical Ground.	1
55	RX LANE 0+	Module XAUI Output Lane 0+.	4
56	RX LANE 0-	Module XAUI Output Lane 0	4
57	GND	Electrical Ground.	1
58	TX LANE 1+	Module XAUI Output Lane 1+.	4
59	TX LANE 1-	Module XAUI Output Lane 1	4
60	GND	Electrical Ground.	1
61	TX LANE 2+	Module XAUI Output Lane 2+.	4
62	TX LANE 2-	Module XAUI Output Lane 2	4
63	GND	Electrical Ground.	1
64	TX LANE 3+	Module XAUI Output Lane 2+.	4
65	TX LANE 3-	Module XAUI Output Lane 2	4
66	GND	Electrical Ground	1
67	RESERVED	Reserved.	
68	RESERVED	Reserved.	

69	GND	Electrical Ground.	1
70	GND	Electrical Ground.	1

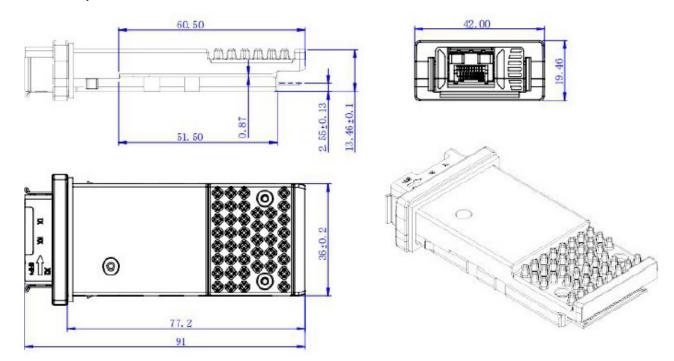
Notes:

- 1. Ground connections are common for Tx and Rx.
- 2. Each connector contact is rated at 0.5A.
- 3. MDIO and MDC timing must comply with IEEE 802.3ae clause 45.3.
- 4. XAUI output characteristics comply with IEEE 802.3ae clause 47.
- 5. Transceivers will be MSA compliant when no signals are present on the vendor specific pins.

Electrical Pin-Out Details



Mechanical Specifications



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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