

CAB-D-D-200G-2M-AO

Arista Networks® CAB-D-D- 200G-2M Compatible TAA Compliant 200GBase-CU QSFP-DD to QSFP-DD NRZ Direct Attach Cable (Passive Twinax, 2m)

Features:

- Compliant to QSFP-DD MSA Standards
- Operating Temperature: 0 to 70 Celsius
- Compliant to IEEE802.3bs
- Built-In EEPROM Functions
- RoHS Compliant and Lead-Free
- Hot-Pluggable



Applications:

- 200GBase Ethernet

Product Description

This is an Arista Networks® CAB-D-D- 200G-2M compatible TAA compliant 200GBase-CU QSFP-DD to QSFP-DD NRZ direct attach cable that operates over passive copper with a maximum reach of 2.0m (6.6ft). It has been programmed, uniquely serialized, and data-traffic and application tested to ensure it is 100% compliant and functional. This direct attach cable is TAA (Trade Agreements Act) compliant, and is built to comply with MSA (Multi-Source Agreement) standards. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

AddOn'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
Supply Voltage	Vcc	-0.3	3.3	3.6	V	
Storage Temperature	Tstg	-40		85	°C	
Operating Case Temperature	Tc	0		70	°C	
Humidity	RH	5		85	%	
Data Rate			200		Gbps	
Wire Gauge			30		AWG	

Pin Descriptions

Pin	Logic	Symbol	Name/Description	Plug Sequence
1		GND	Module Ground.	1B
2	CML-I	Tx2-	Transmitter Inverted Data Input.	3B
3	CML-I	Tx2+	Transmitter Non-Inverted Data Input.	3B
4		GND	Module Ground.	1B
5	CML-I	Tx4-	Transmitter Inverted Data Input.	3B
6	CML-I	Tx4+	Transmitter Non-Inverted Data Input.	3B
7		GND	Module Ground.	1B
8	LVTTL-I	ModSelL	Module Select.	3B
9	LVTTL-I	ResetL	Module Reset.	3B
10		VccRx	+3.3V Receiver Power Supply.	2B
11	LVC MOS-I/O	SCL	2-Wire Serial Interface Clock.	3B
12	LVC MOS-I/O	SDA	2-Wire Serial Interface Data.	3B
13		GND	Module Ground.	1B
14	CML-O	Rx3+	Receiver Non-Inverted Data Output.	3B
15	CML-O	Rx3-	Receiver Inverted Data Output.	3B
16		GND	Module Ground.	1B
17	CML-O	Rx1+	Receiver Non-Inverted Data Output.	3B
18	CML-O	Rx1-	Receiver Inverted Data Output.	3B
19		GND	Module Ground.	1B
20		GND	Module Ground.	1B
21	CML-O	Rx2-	Receiver Inverted Data Output.	3B
22	CML-O	Rx2+	Receiver Non-Inverted Data Output.	3B
23		GND	Module Ground.	1B
24	CML-O	Rx4-	Receiver Inverted Data Output.	3B
25	CML-O	Rx4+	Receiver Non-Inverted Data Output.	3B
26		GND	Module Ground.	1B
27	LVTTL-O	ModPrsL	Module Present.	3B
28	LVTTL-O	IntL	Interrupt.	3B
29		VccTx	+3.3V Transmitter Power Supply.	2B

30		Vcc1	+3.3V Power Supply.	2B
31	LVTTL-I	InitMode	Initialization Mode. In legacy QSFP applications, the InitMode pad is called LPMode.	3B
32		GND	Module Ground.	1B
33	CML-I	Tx3+	Transmitter Non-Inverted Data Input.	3B
34	CML-I	Tx3-	Transmitter Inverted Data Input.	3B
35		GND	Module Ground.	1B
36	CML-I	Tx1+	Transmitter Non-Inverted Data Input.	3B
37	CML-I	Tx1-	Transmitter Inverted Data Input.	3B
38		GND	Module Ground.	1B
39		GND	Module Ground.	1A
40	CML-I	Tx6-	Transmitter Inverted Data Input.	3A
41	CML-I	Tx6+	Transmitter Non-Inverted Data Input.	3A
42		GND	Module Ground.	1A
43	CML-I	Tx8-	Transmitter Inverted Data Input.	3A
44	CML-I	Tx8+	Transmitter Non-Inverted Data Input.	3A
45		GND	Module Ground.	1A
46		OPEN		3A
47		OPEN		3A
48		OPEN		2A
49		OPEN		3A
50		OPEN		3A
51		GND		1A
52	CML-O	Rx7+	Receiver Non-Inverted Data Output.	3A
53	CML-O	Rx7-	Receiver Inverted Data Output.	3A
54		GND	Module Ground.	1A
55	CML-O	Rx5+	Receiver Non-Inverted Data Output.	3A
56	CML-O	Rx5-	Receiver Inverted Data Output.	3A
57		GND	Module Ground.	1A
58		GND	Module Ground.	1A
59	CML-O	Rx6-	Receiver Inverted Data Output.	3A
60	CML-O	Rx6+	Receiver Non-Inverted Data Output.	3A
61		GND	Module Ground.	1A
62	CML-O	Rx8-	Receiver Inverted Data Output.	3A
63	CML-O	Rx8+	Receiver Non-Inverted Data Output.	3A
64		GND	Module Ground.	1A
65		OPEN	Not Connected.	3A
66		OPEN	For Future Use.	3A
67		OPEN	+3.3V Transmitter Power Supply.	2A
68		OPEN	+3.3V Power Supply.	2A
69		OPEN	For Future Use.	3A
70		GND	Module Ground.	1A
71	CML-I	Tx7+	Transmitter Non-Inverted Data Input.	3A
72	CML-I	Tx7-	Transmitter Inverted Data Input.	3A

73		GND	Module Ground.	1A
74	CML-I	Tx5+	Transmitter Non-Inverted Data Input.	3A
75	CML-I	Tx5-	Transmitter Inverted Data Input.	3A
76		GND	Module Ground.	1A

Wiring Diagram

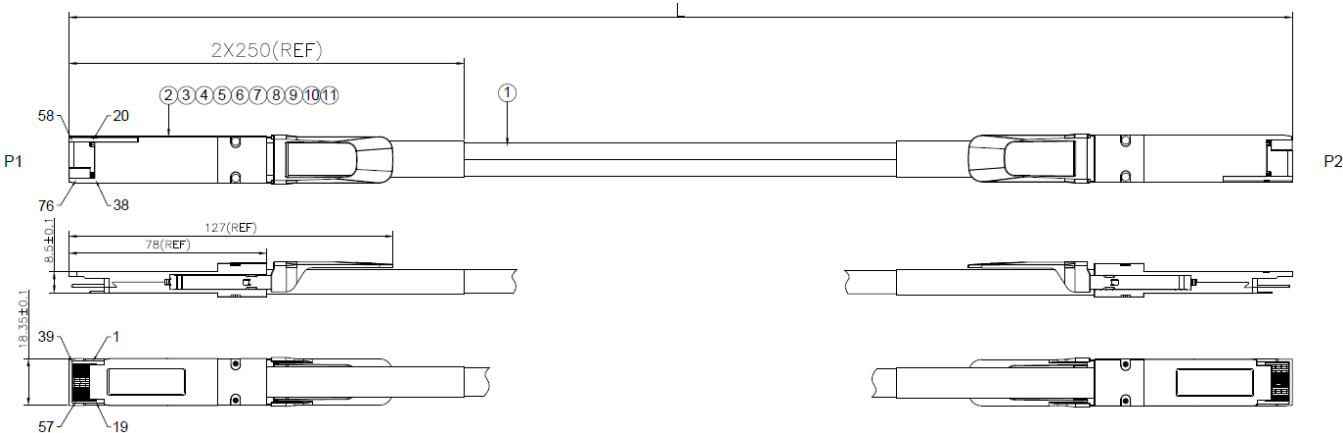
LOW SPEED SIGNALS P1 & P2	
PAD	SIGNAL
8	MODSELL
9	RESETL
10	VCCRX
11	SCL
12	SDA
27	MODPRSL
28	INTL
29	VCCTX
30	VCC1
31	INIT_MODE
46	OPEN
47	OPEN
48	OPEN
49	OPEN
50	OPEN
65	OPEN
66	OPEN
67	OPEN
68	OPEN
69	OPEN

WIRING DIAGRAM				
P1 END			P2 END	
Pad	Signal		Pad	Signal
1	GND	—	20	GND
2	TX2n	→	21	RX2n
3	TX2p	→	22	RX2p
4	GND	—	23	GND
5	TX4n	→	24	RX4n
6	TX4p	→	25	RX4p
7	GND	—	26	GND
13	GND	—	32	GND
14	RX3p	←	33	TX3p
15	RX3n	←	34	TX3n
16	GND	—	35	GND
17	RX1p	←	36	TX1p
18	RX1n	←	37	TX1n
19	GND	—	38	GND
20	GND	—	1	GND
21	RX2n	←	2	TX2n
22	RX2p	←	3	TX2p
23	GND	—	4	GND
24	RX4n	←	5	TX4n
25	RX4p	←	6	TX4p
26	GND	—	7	GND
32	GND	—	13	GND
33	TX3p	→	14	RX3p
34	TX3n	→	15	RX3n
35	GND	—	16	GND
36	TX1p	→	17	RX1p
37	TX1n	→	18	RX1n
38	GND	—	19	GND

WIRING DIAGRAM				
P1 END			P2 END	
Pad	Signal		Pad	Signal
39	GND	—	58	GND
40	TX6n	→	59	RX6n
41	TX6p	→	60	RX6p
42	GND	—	61	GND
43	TX8n	→	62	RX8n
44	TX8p	→	63	RX8p
45	GND	—	64	GND
51	GND	—	70	GND
52	RX7p	←	71	TX7p
53	RX7n	←	72	TX7n
54	GND	—	73	GND
55	RX5p	←	74	TX5p
56	RX5n	←	75	TX5n
57	GND	—	76	GND
58	GND	—	39	GND
59	RX6n	←	40	TX6n
60	RX6p	←	41	TX6p
61	GND	—	42	GND
62	RX8n	←	43	TX8n
63	RX8p	←	44	TX8p
64	GND	—	45	GND
70	GND	—	51	GND
71	TX7p	→	52	RX7p
72	TX7n	→	53	RX7n
73	GND	—	54	GND
74	TX5p	→	55	RX5p
75	TX5n	→	56	RX5n
76	GND	—	57	GND



Mechanical Specifications



Item	Name	Description	Quantity
1	Raw Cable	8 Pairs, PVC Jacket, Black	A/R
2	PCBA	PCB, 76P, Au 30u" Minimum	2
3	Top Shell	Zinc Alloy, Plated Nickel Over Copper	2
4	Bottom Shell	Zinc Alloy, Plated Nickel Over Copper	2
5	Pull Tab	Pull Tab, TPV, Black	2
6	Rivet	Aluminum Alloy	4
7	Spring	Stainless Steel	4
8	Blackshell Label	Blackshell Label	2
9	Inner Mold	Hot-Melt Glue	A/R
10	Copper Tape	T=0.15MM	A/R
11	Heat Shrinkable Tube	Black Tube	A/R

Notes:

1. Raw cable impedance: $100^{+10}_{-5}\Omega$. Mated connector impedance: $100^{+10}_{-15}\Omega$. Rise time: 25ps (20-80%).
2. 100% conductor test. Test condition: voltage 5V. Insulation resistance: 10m Ω . Conduction resistance maximum: 3 Ω .
3. High-frequency test according to IEEE802.3cd standard.
4. All materials are RoHS complaint.

About AddOn Networks

In 1999, AddOn Networks entered the market with a single product. Our founders fulfilled a severe shortage for compatible, cost-effective optical transceivers that compete at the same performance levels as leading OEM manufacturers. Adhering to the idea of redefining service and product quality not previously had in the fiber optic networking industry, AddOn invested resources in solution design, production, fulfillment, and global support.

Combining one of the most extensive and stringent testing processes in the industry, an exceptional free tech support center, and a consistent roll-out of innovative technologies, AddOn has continually set industry standards of quality and reliability throughout its history.

Reliability is the cornerstone of any optical fiber network and is ingrained in AddOn's DNA. It has played a key role in nurturing the long-term relationships developed over the years with customers. AddOn remains committed to exceeding industry standards with certifications ranging from NEBS Level 3 to ISO 9001:2015 with every new development while maintaining the signature reliability of its products.



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