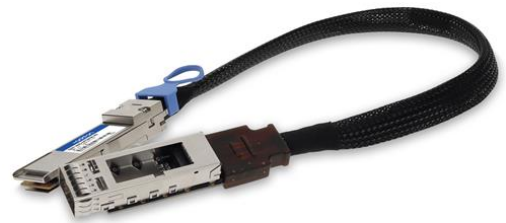


QSFP-100G-EXT36CM-AO

100GBase-CU QSFP28 to QSFP28 Male to Female Direct Attach Extension Cable (Passive Twinax, 36cm, 30AWG)

Features

- Low EMI Emission
- Oil-Resistant, Dust-Proof, and Anti-Corrosion
- Insertion Loss: 7.0dB at 12.89GHz Per Channel
- Compliant with QSFP-MSA
- Compliant with SFF-8436 and SFF-8665
- Low Near-End Crosstalk (NEXT)
- Compliant with Infiniband EDR
- Compliant with IEEE 802.3bj
- RoHS Compliant and Lead-Free
- Operating Temperature: 0 to 70 Celsius



Applications

- Extends the Link of 100G Transceivers
- Extends the Link of 100G AOCs

Product Description

This is an MSA compliant 100GBase-CU QSFP28 to QSFP28 direct attach extension cable that operates over passive copper with a maximum reach of 36cm (1.2ft). 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
Storage Temperature	Tstg	-20		80	°C
Operating Case Temperature	Tc	0	25	70	°C
Data Rate Per Lane			25.78125		Gbps

General Specifications

Parameter	Specifications	Notes
Feature	Adapter (convert connector type to cage type) with extended cable	
Connector Type	QSFP28 (SFF-8665)	
Cage Type	QSFP28 cage	
Wire Gauge	30AWG	
Length	26cm	1
Latch Color	Sky blue	

Notes:

1. The length excludes the connector and cage.

Pin Descriptions

Pin	Symbol	Name/Description	Notes
1	GND	Module Ground.	1
2	Tx2-	Transmitter Inverted Data Input.	
3	Tx2+	Transmitter Non-Inverted Data Input.	
4	GND	Module Ground.	1
5	Tx4-	Transmitter Inverted Data Input.	
6	Tx4+	Transmitter Non-Inverted Data Input.	
7	GND	Module Ground.	1
8	ModSelL	Module Select.	
9	ResetL	Module Reset.	
10	VccRx	+3.3V Receiver Power Supply.	
11	SCL	2-Wire Serial Interface Clock.	
12	SDA	2-Wire Serial Interface Data.	
13	GND	Module Ground.	1
14	Rx3+	Receiver Non-Inverted Data Output.	
15	Rx3-	Receiver Inverted Data Output.	
16	GND	Module Ground.	1
17	Rx1+	Receiver Non-Inverted Data Output.	
18	Rx1-	Receiver Inverted Data Output.	
19	GND	Module Ground.	1
20	GND	Module Ground.	1
21	Rx2-	Receiver Inverted Data Output.	
22	Rx2+	Receiver Non-Inverted Data Output.	
23	GND	Module Ground.	1
24	Rx4-	Receiver Inverted Data Output.	
25	Rx4+	Receiver Non-Inverted Data Output.	
26	GND	Module Ground.	1
27	ModPrsL	Module Present. Internally pulled down to the GND.	
28	IntL	Interrupt output should be pulled up on the host board.	
29	VccTx	+3.3V Transmitter Power Supply.	
30	Vcc1	+3.3V Power Supply.	
31	LPMODE	Low-Power Mode.	
32	GND	Module Ground.	1
33	Tx3+	Transmitter Non-Inverted Data Input.	
34	Tx3-	Transmitter Inverted Data Input.	
35	GND	Module Ground.	1
36	Tx1+	Transmitter Non-Inverted Data Input.	
37	Tx1-	Transmitter Inverted Data Input.	
38	GND	Module Ground.	1

Notes:

1. The module circuit ground is isolated from the module chassis ground within the module.

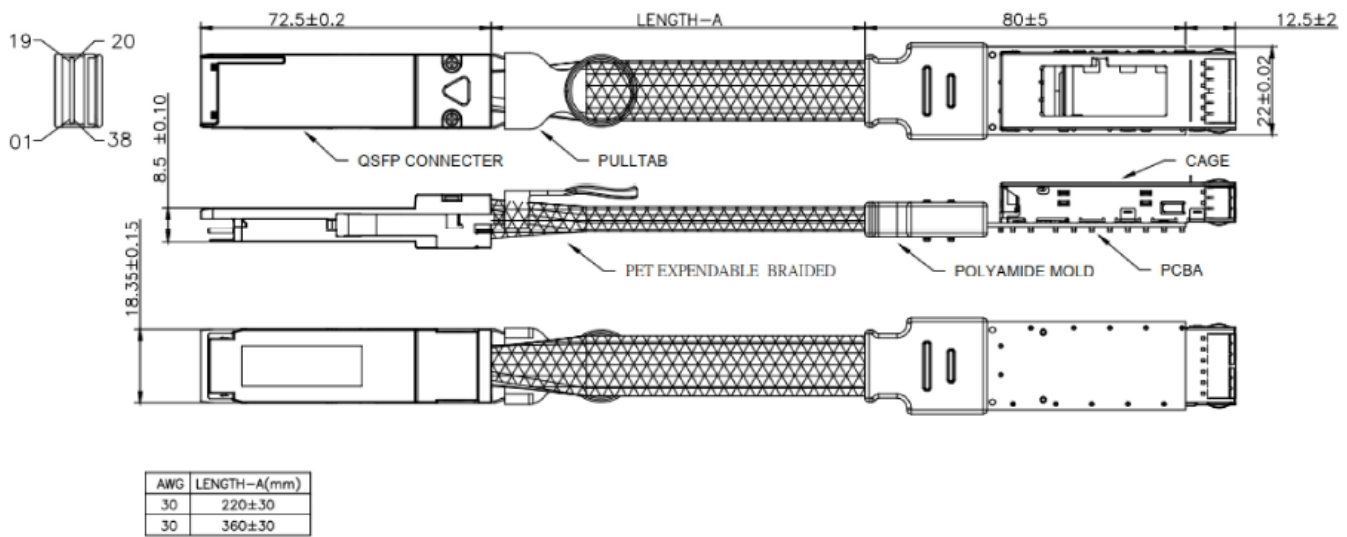
Pin Assignments

WIRING DIAGRAM

HIGH SPEED SIGNAL				
P1(QSFP28 PLUG)			P2(QSFP28 RECEPTACLE)	
PAD	SIGNAL		PAD	SIGNAL
02	TX2n		02	TX2n
03	TX2p		03	TX2p
05	TX4n		05	TX4n
06	TX4p		06	TX4p
14	RX3p		14	RX3p
15	RX3n		15	RX3n
17	RX1p		17	RX1p
18	RX1n		18	RX1n
21	RX2n		21	RX2n
22	RX2p		22	RX2p
24	RX4n		24	RX4n
25	RX4p		25	RX4p
33	TX3p		33	TX3p
34	TX3n		34	TX3n
36	TX1p		36	TX1p
37	TX1n		37	TX1n
08	ModSelL		08	ModSelL
09	ResetL		09	ResetL
10	VccRx		10	VccRx
11	SCL		11	SCL
12	SDA		12	SDA
27	ModPrsL		27	ModPrsL
28	IntL		28	IntL
29	VccTx		29	VccTx
30	Vcc1		30	Vcc1
31	LPMode		31	LPMode
GND GROUP	GND		GND GROUP	GND
GND GROUP 01,04,07,13,16,19 20,23,26,32,35,38			GND GROUP 01,04,07,13,16,19 20,23,26,32,35,38	
CONNECTOR SHELL			CONNECTOR SHELL	

*DC BLOCKING CAPS ON P1,P2 RX END.

Mechanical Specifications



- Notes:
- 1. Standard length as LENGTH-A in drawing with tolerance.
 - 2. Unit: mm.
 - 3. Compliant with IEEE802.3bj.
 - 4. LED function: once pluggable QSFP28 connector end of the extender is plugged into an equipment that supports Vcc power 3.3v, the LED will be ON.

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 from ranging from NEBS Level 3 to ISO 9001:2005 with every new development while maintaining the signature reliability of its products.



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