

Regional Availability – Global

Siemon's 100G (100G per lane) PAM4 Ethernet SFP112 passive copper cable DAC¹ assemblies are designed to exceed industry standard performance offering a cost-effective, low latency, low-power option for high-speed data center network equipment direct connections.

Passive DACs are available up to 2 meters with the lowest power consumption. AECs² offer lengths up to 3.5 meters. Both are available in 0.5 meter increments in 1:1 straight throughs.

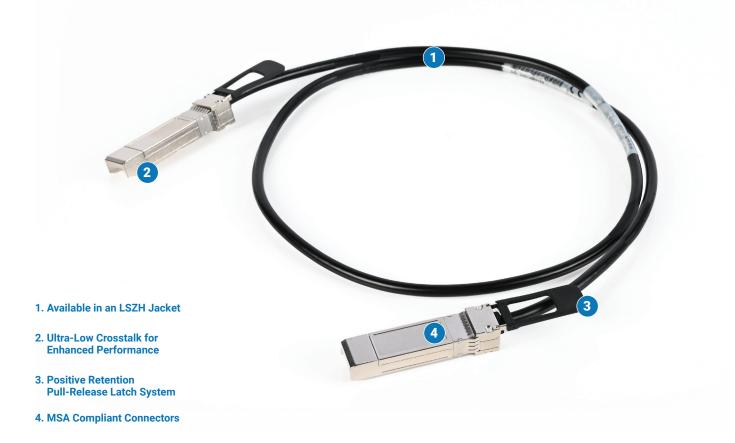
1: DAC – Direct Attach Copper Passive cable assembly with limited lengths and lowest power consumption requirement. 2: AEC – Active Electrical Cable Digital re-timer based active cable assembly with longer lengths than DACs.

Accelerator Cards

Storage

Routers

Servers



Applications

- Ethernet 100GBASE CR1
- Top-of-Rack
- Rack-to-Rack
- Switch-to-Switch
- Switch-to-Server
- Network Interface Adapter

Standards Compliance

IEEE 802.3ck SFF-8402 SFF-8071 SFF-8419 CMIS

PHYSICAL PROPERTIES – CONNECTORS

CONNECTOR TYPE	SFP112			
LANES UTILIZED		CR1		
CONNECTOR SIDE(S)		A/B		
CABLE ASSEMBLY CONFIGURATION		1:A		
POWER CONSUMPTION PER END (Max)	DAC	0.1 W		
	AEC	1.2 W		
SUPPLY VOLTAGE	3.3VDC			
INSERTION FORCE (Max)		18N		
EXTRACTION FORCE (Max)		12.5N		
RETENTION FORCE (Max)		90N		
DURABILITY (Min)		250 cycles		
OPERATING TEMPERATURE		0 to 70°C (32 to 158°F)		
STORAGE TEMPERATURE		-40 to 85°C (-40 to 185°F)		

PHYSICAL PROPERTIES – CABLE

JACKET TYPE		LSZH/AWM		
JACKET MATERIAL		LSZH		
FLAMMABILITY RATING		UL94 V-0 (AWM)		
TWINAX PAIRS PER CABLE LEG		2		
CABLE ASSEMBLY CONFIGURATION		1:1		
CABLE CONFIGURATION		CR1/CR1		
CABLE O.D. PER AWG	30AWG	4.6 mm		
	26AWG	5.6 mm		
CONSTRUCTION	l	Twinaxial		
SHIELD		Braid/Foil		
CONDUCTOR		Solid		
IMPEDANCE		100± 5 ohms		
GREEN FEATURES		RoHS, Lead-Free and REACH		

		DAC MAX LENGTH	AEC MAX LENGTH
		LSZH/AWM	LSZH/AWM
MAX LENGTH	30AWG	-	2 m
	26AWG	2 m	3.5 m

100G PAM4 SFP112

S1S 112 (X) (XX.X) -8 LB

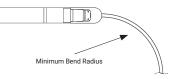
CONNECTOR Type	Side A	Side B	PROTOCOL	CABLE TYPE	LENGTH	JACKET TYPE	JACKET Color
S1S	SFP (CR1)	SFP (CR1)	112 = 100G PAM4 Ethernet	P = DAC Direct Attach Copper	00.5 = 0.5 m 01.0 = 1.0 m 01.5 = 1.5 m 02.0 = 2.0 m	L = LSZH/AWM	B = Black
				E = AEC Active Electrical Cable	02.5 = 2.5 m 03.0 = 3.0 m 03.5 = 3.5 m		

Please contact our Technical Sales Group if you require connectivity or cable configurations that are not listed above.



Straight Through





Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

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