

Regional Availability – Global

Siemon's 800G (100G per lane) PAM4 Ethernet QSFP-DD 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 point-to-point connections. The industry's smallest minimum bend radius is achieved with our mesh sleeves.

Passive DACs are available up to 2 meters with the lowest power consumption. AECs² offer lengths up to 5 meters. Both are available in 0.5 meter increments in 1:1 straight throughs and 1:2, 1:4 and 1:8 breakouts.

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



Half-Loaded Legs Available



Numbered Breakouts



Mesh Sleeve Provides Best-in-Class Cable Routing

1. ISZH Compliant UL94 VW-1 Mesh Available for Global use 2. Ultra-Low Crosstalk for Enhanced Performance 3. Positive Retention Pull-Release Latch System 4. MSA Compliant Connectors

Applications

- Ethernet 800GBASE CR8
- Top-of-Rack
- Rack-to-Rack
- Switch-to-Switch
- Switch-to-Server
- Network Interface Adapter

Standards Compliance

QSFP-DD	QSFP112	OSFP-RHS	SFP-DD	SFP112
IEEE 802.3ck				
QSFP-DD MSA	SFF-8661	OSFP MSA	SFP-DD MSA	SFF-8402
CMIS	SFF-8672	CMIS	CMIS	SFF-8071
	SFF-8679			SFF-8419
	QSFP112 MSA			SFF-8024
	CMIS			CMIS

PHYSICAL PROPERTIES – CONNECTORS

CONNECTOR TYPE		QSFP-DD	QSFP112	OSFP-RHS	QSFP112	OSFP-RHS	SFP-DD	SFP112
LANES UTILIZED		CR8	CR4	CR4	CR2	CR2	CR2	CR1
CONNECTOR SIDE(S)		A/B	В	В	В	В	В	В
CABLE ASSEMBLY TYPE		1:1	1:2	1:2	1:4	1:4	1:4	1:8
POWER CONSUMPTION PER END (Max)	DAC	0.1 W	0.1 W	0.1 W	0.1 W	0.1 W	0.1 W	0.1 W
POWER CONSUMPTION PER END (Max)	ACC	8.0 W	4.0 W	4.0 W	2.1 W	2.1 W	2.1 W	1.2 W
SUPPLY VOLTAGE		3.3VDC	3.3VDC	3.3VDC	3.3VDC	3.3VDC	3.3VDC	3.3VDC
INSERTION FORCE (Max)		90N	60N	55N	60N	55N	40N	18N
EXTRACTION FORCE (Max)		50N	30N	45N	30N	45N	30N	12.5N
RETENTION FORCE (Max)		90N	90N	125N	90N	125N	90N	90N
DURABILITY (Min)		50 cycles	250 cycles	50 cycles	250 cycles	50 cycles	50 cycles	250 cycles
OPERATING TEMPERATURE			0 to 70°C (32 to 158°F)					
STORAGE TEMPERATURE				-40 t	to 85°C (-40 to 18	5°F)		

PHYSICAL PROPERTIES – CABLE

JACKET TYPE			MESH/VW-1			LSZH/AWM		
JACKET MATER	IAL	PET Plastic Mesh			LSZH			
FLAMMABILITY	' RATING	UL94 VW-1			UL94 V-0 (AWM)			
TWINAX PAIRS	PER CABLE LEG	16	8	4	8	4	2	
CABLE ASSEMB	LY CONFIGURATION	1:1	1:2	1:4	1:2 , 1:1*	1:4	1:8	
CABLE CONFIG	URATION	CR8/CR8	CR8/CR4	CR8/CR2	CR8/CR4, CR8/CR8	CR8/CR2	CR8/CR1	
	30AWG	9.5 mm	5.7 mm	5.1 mm	7.5 mm	6.0 mm	4.6 mm	
CABLE O.D.	28AWG	10.2 mm	7.0 mm	5.8mm	-	-	-	
PER AWG	26AWG	12.1 mm	8.3 mm	6.8 mm	9.8 mm	7.4 mm	5.6 mm	
	25AWG	12.1 mm	8.3 mm	6.8 mm	-	-	-	
CONSTRUCTION	N			Tw	inaxial			
SHIELD				Bra	id/Foil			
CONDUCTOR				\$	Solid			
IMPEDANCE				100 :	± 5 ohms			
GREEN FEATURI	ES			RoHS, Lead-	Free and REACH			

*The 1:1 straight-through LSZH/AWM conventionally jacketed cable assembly is constructed with two parallel 8-pair cables

		DAC MA	X LENGTH	AEC MA	X LENGTH
		MESH/VW-1	LSZH/AWM	MESH/VW-1	LSZH/AWM
	30AWG	-	-	2 m	2 m
MAX LENGTH	28AWG	1 m	-	3 m	-
MAX LENGIN	26AWG	-	2 m	-	3.5 m
	25AWG	2 m	-	5 m	-

800G PAM4 QSFP-DD

(XXX) (XXX) (X) (XX.X) -8 (X) (X)

CONNECTOR TYPE	Side A	Side B	PROTOCOL	CABLE TYPE	LENGTH	ЈАСКЕТ ТҮРЕ	JACKET COLOR
D1D D2Q D2R D4Q DSD	QSFP-DD (CR8) QSFP-DD (CR8) QSFP-DD (CR8) QSFP-DD (CR8) QSFP-DD (CR8)	QSFP-DD (CR8) 2xQSFP (CR4) 2xOSFP-RHS (CR4) 4xQSFP (CR2) 4xSFP-DD (CR2)	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	Z = Mesh/VW-1	B = Black W = White R = Red U = Blue S = Silver
D4R D8S	QSFP-DD (CR8) QSFP-DD (CR8)	4xOSFP-RHS (CR2) 8xSFP (CR1)		E = AEC Active Electrical Cable	02.5 = 2.5 m 03.0 = 3.0 m	-	N = Orange
					03.5 = 3.5 m 04.0 = 4.0 m 04.5 = 4.5 m 05.0 = 5.0 m	L = LSZH/AWM	B = Black

Minimum Bend Radius

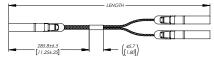
Please contact our Technical Sales Group if you require connectivity or cable configurations that are not listed above.

on G PAM4. CR8/CR8. OSFP-DD. 1m. Mesh/VW-1. Black	Notes: OSFP-RHS is OSFP Riding Heat Sink (also called Flat Top).
G PAM4_CR8/CR8_OSEP-DD_1m_Mesh/VW-1_Black	OSEP-RHS is OSEP Riding Heat Sink (also called Flat Ton)
	con initions con initiang near onitic (also called hat top).
G PAM4, CR8/CR8, QSFP-DD/OSFP-RHS, 5m, Mesh/VW-1, White	RS-FEC is always on
G PAM4, CR8/CR4, QSFP-DD/20SFP-RHS, 2m, LSZH/AWM, Black	
G PAM4, CR8/CR2, QSFP-DD/4QSFP56, 3m, Mesh/VW-1, Red	
)	G PAM4, CR8/CR8, QSFP-DD/OSFP-RHS, 5m, Mesh/VW-1, White G PAM4, CR8/CR4, QSFP-DD/2OSFP-RHS, 2m, LSZH/AWM, Black G PAM4, CR8/CR2, QSFP-DD/4QSFP56, 3m, Mesh/VW-1, Red

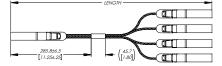
Straight Through



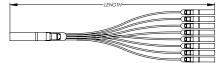
1:2 Breakout



1:4 Breakout



1:8 Breakout



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