



DAC/ACC/AEC/AOC
Transceivers

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Transceiver



800G

400G

200G

100G

100G
Single Lambda

50G

I-TEMP
25G&100G

OSFP

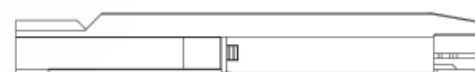
400G
OSFP

/

400G
OSFP-RHS
NDR

/

800G
OSFP
NDR



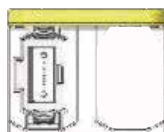
OSFP



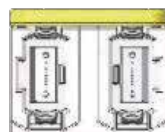
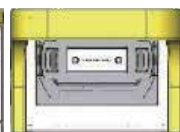
OSFP-RHS



SR4
SR8



4 x DR
4 x FR
4 x LR



VR4
8 x DR
8 x FR



FR8



2 x FR4

OSFP Transceiver (56G PAM4)

Product	Rate	Reach	Conn.	W.L. (nm)	发射(dBm)		接收(dBm)		(电路) Electric	PAM4/ NRZ	(光路) Optical	PAM4/ NRZ
					TX	Power	RX	Sen.				
OSFP 400G SR8	400 G	70 m (OM3) 100 m (OM4)	MPO-16	850	VCSEL	-6 ~ 4	PIN	-7	8 x 56G	PAM4	8 x 56G	PAM4
OSFP 400G SR4.2	400 G	70 m (OM3) 100 m (OM4) 150 m (OM5)	MPO-12	850/910	VCSEL	-6.5 ~ 4	PIN	-6.6	8 x 56G	PAM4	8 x 56G	PAM4

OSFP Transceiver (112G PAM4) NDR

Product	Rate	Reach	Conn.	W.L. (nm)	发射(dBm)		接收(dBm)		(电路) Electric	PAM4/ NRZ	(光路) Optical	PAM4/ NRZ
					TX	Power	RX	Sen.				
OSFP 4x100G SR4	400 G	30 m (OM3) 50 m (OM4)	MPO-12 (APC)	850	VCSEL	-4.6 ~ 4	PIN	-4.4	8 x 56G	PAM4	4 x 100G	PAM4
OSFP 400G DR4	400 G	500 m (SMF)	MPO/SN	1310	EML	-2.9 ~ 4	PIN	-4.4	8 x 56G	PAM4	4 x 100G	PAM4
OSFP 4x100G FR	400 G	2-KM (SMF)	MPO/SN	1310	DFB	-2.4 ~ 4	PIN	-6.4	8 x 56G	PAM4	4 x 100G	PAM4
OSFP 4x100G LR	400 G	10-KM (SMF)	MPO/SN	1310	DFB	-2.4 ~ 4	PIN	-6.4	8 x 56G	PAM4	4 x 100G	PAM4
OSFP 2x400G VR4	800 G	30 m (OM3) 50 m (OM4)	2*MPO-12 (APC)	850	VCSEL	-4.6 ~ 4	PIN	-4.4	8 x 100G	PAM4	8 x 100G	PAM4
OSFP 8x100G DR	800 G	500 m (SMF)	2*MPO-12	1310	EML	-5.9 ~ 4	PIN	-3.9	8 x 100G	PAM4	8 x 100G	PAM4
OSFP 8x100G FR	800 G	2-KM (SMF)	2*MPO-12	1310	EML	-3.1 ~ 4	PIN	-7.1	8 x 100G	PAM4	8 x 100G	PAM4
OSFP 2x400G FR4	800 G	2-KM (SMF)	2*LC-2	CWDM (1271~1331)	EML	-3.2 ~ 4.4	PIN	-4.6	8 x 100G	PAM4	2 x 400G	PAM4
OSFP 800G FR8	800 G	2-KM (SMF)	LC-2	CWDM (1271~1411)	EML	-3.3 ~ 3.5	PIN	-7.7	8 x 100G	PAM4	8 x 100G	PAM4



QSFP-DD

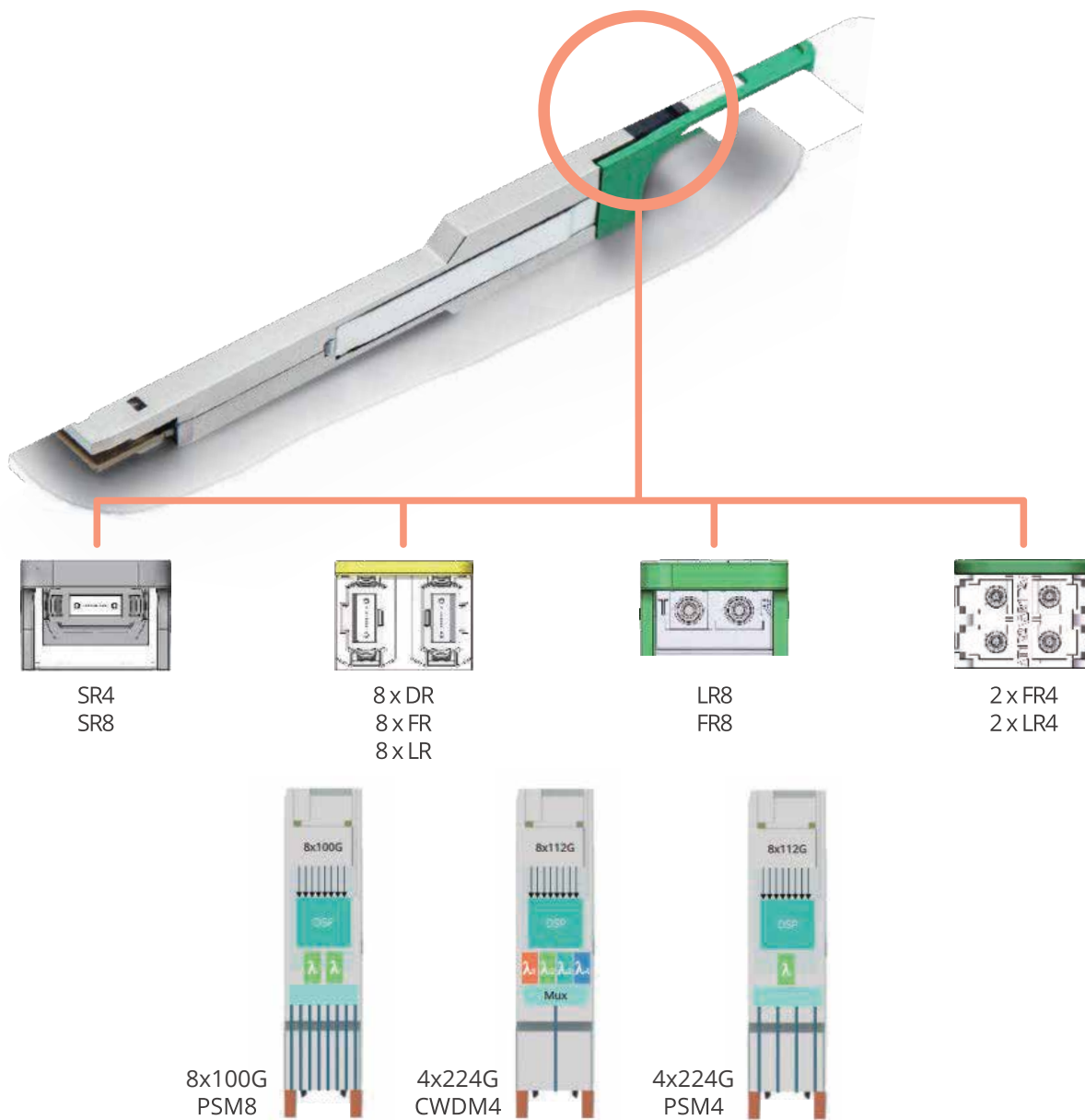
200G
DD-28

/

400G
DD-56
CMIS 4.0

/

800G
DD-112
CMIS 5.0



200G QSFP-DD Transceiver (25G NRZ)

Product	Rate	Reach	Conn.	W.L. (nm)	(dBm)		(dBm)		Electric	PAM4/ NRZ	Optical	PAM4/ NRZ
					TX	Power	RX	Sen.				
QSFP-DD SR8	200 G	70 m (OM3) 100 m (OM4)	MPO(8)	850	VCSEL	-8.4 ~ 2.4	PIN	-5.2	8 x 25G	NRZ	8 x 25G	NRZ

QSFP-DD Transceiver (56G PAM4)

Product	Rate	Reach	Conn.	W.L. (nm)	(dBm)		(dBm)		Electric	PAM4/ NRZ	Optical	PAM4/ NRZ
					TX	Power	RX	Sen.				
QSFP-DD 400G SR8	400 G	70 m (OM3) 100 m (OM4)	MPO-16 (APC)	850	VCSEL	-6.5 ~ 4	PIN	-7.9	8 x 56G	PAM4	8 x 56G	PAM4
QSFP-DD 400G SR4.2	400 G	100 m (OM4) 150 m (OM5)	MPO-12	850/910	VCSEL	-6.2 ~ 4	PIN	-6.6	8 x 56G	PAM4	8 x 56G	PAM4
QSFP-DD 400G LR8	400 G	10-KM (SMF)	LC-2	LWDM (1273.54~1309.14)	EML	-2.8 ~ 5.3	PIN	-6.6	8 x 56G	PAM4	8 x 56G	PAM4

QSFP-DD Transceiver (100G PAM4)

Product	Rate	Reach	Conn.	W.L. (nm)	(dBm)		(dBm)		Electric	PAM4/ NRZ	Optical	PAM4/ NRZ
					TX	Power	RX	Sen.				
QSFP-DD 400G SR4	400 G	60 m (OM3) 100 m (OM4)	MPO-12	850	VCSEL	-6.5 ~ 4	PIN	-8.5	8 x 56G	PAM4	4 x 100G	PAM4
QSFP-DD 400G DR4	400 G	500 m (SMF)	MPO-12	1310	EML	-2.9 ~ 4	PIN	-5.9	8 x 56G	PAM4	4 x 100G	PAM4
QSFP-DD 4x100G FR (XDR4)	400 G	2-KM (SMF)	MPO-12	1310	EML	-3.1 ~ 4	PIN	-6.4	8 x 56G	PAM4	4 x 100G	PAM4
QSFP-DD 400G FR4	400 G	2-KM (SMF)	LC-2	CWDM (1271~1411)	EML	-3.2 ~ 3.5	PIN	-7.7	8 x 56G	PAM4	4 x 100G	PAM4
QSFP-DD 400G LR4	400 G	10-KM (SMF)	LC-2	CWDM (1270~1330)	EML	-2.7 ~ 5.1	PIN	-7.7	8 x 56G	PAM4	4 x 100G	PAM4
QSFP-DD 400G ER4-30	400 G	30-KM (SMF)	LC-2	NWDM (1305~1311)	EML	0.4 ~ 6.5	APD	-16.5	8 x 56G	PAM4	4 x 100G	PAM4
QSFP-DD 8x100G SR8	800 G	60 m (OM3) 100 m (OM4)	MPO-16 (APC)	850	VCSEL	-4.6 ~ 4	PIN	-4.6	8 x 100G	PAM4	8 x 100G	PAM4
QSFP-DD 8x100G DR	800 G	500 m (SMF)	MPO-16/ 2*MPO-12	1310	EML	-2.9 ~ 4	PIN	-5.9	8 x 100G	PAM4	8 x 100G	PAM4
QSFP-DD 8x100G FR	800 G	2-KM (SMF)	MPO-16/ 2*MPO-12	1310	EML	-3.1 ~ 4	PIN	-7.1	8 x 100G	PAM4	8 x 100G	PAM4
QSFP-DD 8x100G LR	800 G	10-KM (SMF)	MPO-16/ 2*MPO-12	1310	EML	-1.9 ~ 4.8	PIN	-8.2	8 x 100G	PAM4	8 x 100G	PAM4
QSFP-DD 2x400G FR4	800 G	2-KM (SMF)	2*LC-2	CWDM (1270~1330)	EML	-3.2 ~ 3.5/ -3.2 ~ 4.4	PIN	-4.6	8 x 100G	PAM4	8 x 100G	PAM4
QSFP-DD 2x400G LR4	800 G	10-KM (SMF)	2*LC-2	CWDM (1270~1330)	EML	-2.7 ~ 5.1	PIN	-9	8 x 100G	PAM4	8 x 100G	PAM4
QSFP-DD 800G FR8	800 G	2-KM (SMF)	LC-2	CWDM (1271~1411)	EML	-3.3 ~ 3.5	PIN	-7.7	8 x 100G	PAM4	8 x 100G	PAM4

Coherent DCO



Coherent DCO Transceiver

Product	Rate	Reach	Tx Optics	RX Optics
200G CFP2 DCO	200 G	1200-KM ~ 2400-KM	ITLA C band SiP	SiP
400G CFP2 DCO	400 G	600-KM ~ 2400-KM	ICTROSA C band	InP
100G ZR+ QSFP-DD DCO	100 G	4000-KM	ITLA C band SiP	Sip
400G ZR QSFP-DD DCO	400 G	120-KM	ITLA C band SiP	Sip
400G ZR+ QSFP-DD DCO	400 G	450-KM ~ 4000-KM	ITLA C band SiP	Sip
400G ZR+ QSFP-DD DCO 0dBm	400 G	600-KM ~ 4000-KM	ICTROSA C band	InP

QSFP

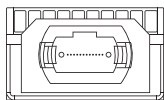
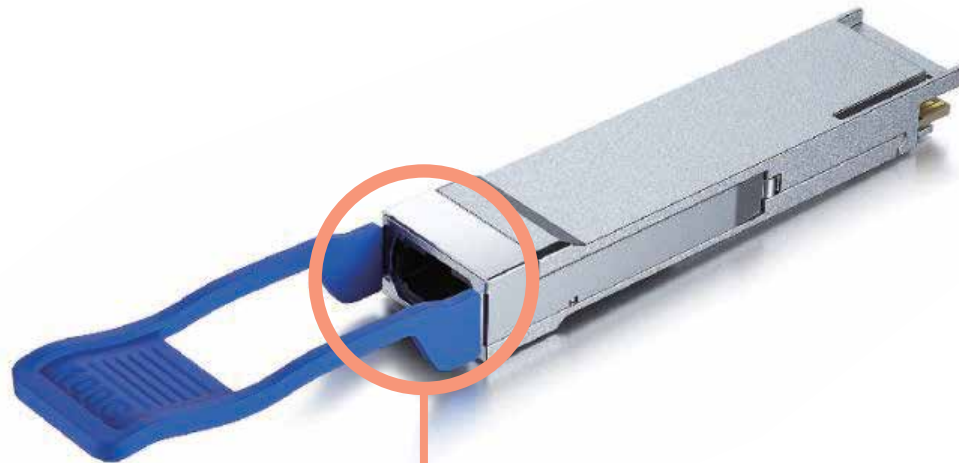
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Q28
EDR

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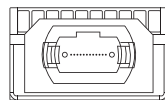
200G
Q56
HDR

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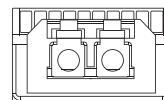
400G
Q112



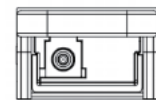
SR4: 100m
ESR4: 400m



4 x IR: 2km
4 x LR: 10km
4 x DR: 500m
FR1: 2km



CWDM4: 2km
LR4: 10km
DR: 500m
FR: 2km
LR: 10km
ER1: 30 ~ 40km
FR4: 2km



BiDi LR: 10km
BiDi eLR: 20km
BiDi ER: 40km

100G QSFP28 Transceiver

Product	Rate	Reach	Conn.	W.L. (nm)	(dBm)		(dBm)		Electric	PAM4/ NRZ	Optical	PAM4/ NRZ
					TX	Power	RX	Sen.				
QSFP28 SR4	100 G	70 m (OM3) 100 m (OM4)	MTP/MPO	850	VCSEL	-6 ~ 2.4	PIN	-10.3	4 x 25Gb/s	NRZ	4 x 25Gb/s	NRZ
QSFP28 ESR4	100 G	300 m (OM3) 400 m (OM4)	MTP/MPO	850	VCSEL	-8.4 ~ 2.4	PIN	-10.3	4 x 25Gb/s	NRZ	4 x 25Gb/s	NRZ
QSFP28 SR1.2	100 G	70 m (OM3) 100 m (OM4)	LC-2	850	VCSEL	-6 ~ 4	PIN	-8	4 x 25Gb/s	PAM4	4 x 25Gb/s	PAM4
QSFP28 IR4 PSM	100 G	2-KM (SMF)	MTP/MPO	1310	DFB	1.0~3.5	PIN	-9	4 x 25Gb/s	NRZ	4 x 25Gb/s	NRZ
QSFP28 LR4 PSM	100 G	10-KM (SMF)	MTP/MPO	1310	DFB	-6 ~ 2	PIN	-12	4 x 25Gb/s	NRZ	4 x 25Gb/s	NRZ
QSFP28 CWDM4	100 G	2-KM (SMF)	LC-2	CWDM	DFB	-6.5~2.5	PIN	-10	4 x 25Gb/s	NRZ	4 x 25Gb/s	NRZ
QSFP28 LR4	100 G	10-KM (SMF)	LC-2	LWDM	EML	-4.3~4.5	PIN	-10.6	4 x 25Gb/s	NRZ	4 x 25Gb/s	NRZ
QSFP28 BIDI	100 G	75 m (OM3) 100 m (OM4)	LC-2	855 908	VCSEL	-6 ~ 4 -4 ~ 5	PIN	-8	4 x 25Gb/s	NRZ	4 x 25Gb/s	NRZ
QSFP28 DR	100 G	500 m (SMF)	LC-2	1311	EML	-2.9 ~ 4	PIN	-4.4	4 x 25Gb/s	NRZ	1 x 100Gb/s	PAM4
QSFP28 FR	100 G	2-KM (SMF)	LC-2	1311	EML	-3.1 ~ 4	PIN	-4.5	4 x 25Gb/s	NRZ	1 x 100Gb/s	PAM4
QSFP28 LR	100 G	10-KM (SMF)	LC-2	1311	EML	-1.4 ~ 4.5	PIN	-4.5	4 x 25Gb/s	NRZ	1 x 100Gb/s	PAM4
QSFP28 ER1-30	100 G	30-KM (SMF)	LC-2	1311	EML	0 ~ 5.6	PIN	<-12.5	4 x 25Gb/s	NRZ	1 x 100Gb/s	PAM4
QSFP28 ER1-40	100 G	40-KM (SMF)	LC-2	1311	EML	0 ~ 5.6	APD	<-14.7	4 x 25Gb/s	NRZ	1 x 100Gb/s	PAM4
BIDI QSFP28 100G LR	100 G	10-KM (SMF)	LC	1271 1311	EML	-1.4 ~ 4.5	PIN	-6.1	4 x 25Gb/s	NRZ	1 x 100Gb/s	PAM4
BIDI QSFP28 100G eLR	100 G	20-KM (SMF)	LC	1291 1311	EML	-0.2 ~ 6.6	PIN	-7.6	4 x 25Gb/s	NRZ	1 x 100Gb/s	PAM4
BIDI QSFP28 100G ER	100 G	40-KM (SMF)	LC	1304.58 1309.14	EML	1.7 ~ 7.1	PIN	-13.8	4 x 25Gb/s	NRZ	1 x 100Gb/s	PAM4

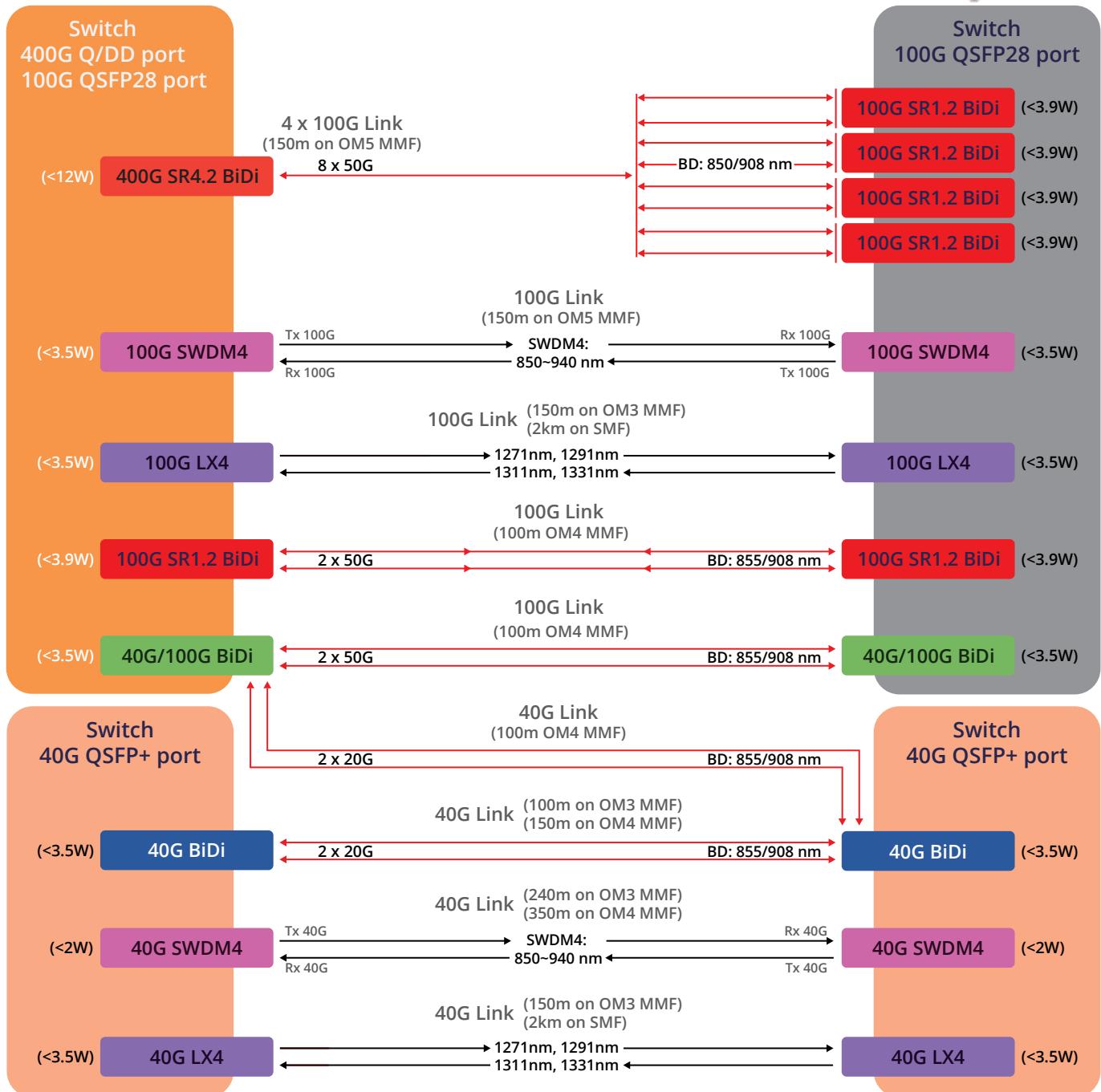
200G QSFP56 Transceiver

Product	Rate	Reach	Conn.	W.L. (nm)	(dBm)		(dBm)		Electric	PAM4/ NRZ	Optical	PAM4/ NRZ
					TX	Power	RX	Sen.				
QSFP56 SR4	200 G	70 m (OM3) 100 m (OM4)	MPO-12 (APC)	850	VCSEL	-6.5 ~ 4	PIN	-8.4	4 x 56Gb/s	PAM 4	4 x 56Gb/s	PAM 4
QSFP56 FR4	200 G	2-KM (SMF)	LC-2	CWDM	EML	-4.2 ~ 4.7	PIN	-8.2	4 x 56Gb/s	PAM 4	1 x 200Gb/s	PAM 4
QSFP56 LR4	200 G	10-KM (SMF)	LC-2	LWDM	DFB	-3.4 ~ 5.3	PIN	-7.7	4 x 56Gb/s	PAM 4	1 x 200Gb/s	PAM 4

400G QSFP112 Transceiver

Product	Rate	Reach	Conn.	W.L. (nm)	(dBm)		(dBm)		Electric	PAM4/ NRZ	Optical	PAM4/ NRZ
					TX	Power	RX	Sen.				
QSFP112 DR4	400 G	500 m (SMF)	MPO-12	1310	EML	-2.9 ~ 4	PIN	-5.9	4 x 106.25Gb/s	PAM4	4 x 106.25Gb/s	PAM4
QSFP112 FR1	400 G	2-KM (SMF)	MPO-12	1310	EML	-2.4 ~ 4	PIN	-6.4	4 x 106.25 Gb/s	PAM4	4 x 106.25Gb/s	PAM4
QSFP112 FR4	400 G	2-KM (SMF)	LC-2	CWDM	EML	-3.3 ~ 3.5	PIN	-7.7	4 x 106.25 Gb/s	PAM4	4 x 106.25Gb/s	PAM4
QSFP112 LR4	400 G	10-KM (SMF)	LC-2	CWDM	EML	-3.3 ~ 3.5	PIN	-7.7	4 x 106.25 Gb/s	PAM4	4 x 106.25Gb/s	PAM4

Two Fiber Solution



SFP

**10G
SFP+**

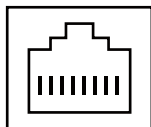
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**25G
SFP28**

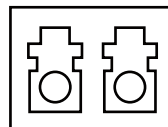
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**50G
SFP56**

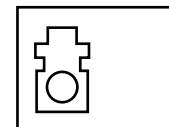
T/SR/LRM/IR/LR/CWDM/DWDM/ER/ZR



T: 30m
T: 80m



SR: 300~500m
SR: 70~100m
LRM: 220m
IR: 2km
FR: 2km
LR: 10km
ER: 40km
ZR: 80km
CWDM/DWDM



BIDI: 3km
BIDI: 20km
BIDI: 40km
BIDI: 80km

SFP+ Transceiver (10Gb/s)

Product	Rate	Reach	Conn.	W.L. (nm)	Tx	Power (dBm)	RX	Sen. (dBm)
SFP+ SR	10.3 G	70 m (OM3) 100 m (OM4)	LC-2	850	VCSEL	-6 ~ 1	PIN	-11.1
SFP+ IR	10.3 G	2-KM (SMF)	LC-2	1310	DFB	-5 ~ 1	PIN	-12.6
SFP+ LR	10.3 G	10-KM (SMF)	LC-2	1310	DFB	-3 ~ 1	PIN	-12.6
SFP+ ER	10.3 G	40-KM (SMF)	LC-2	1310	DFB	-1 ~ 4	PIN	-14.1
SFP+ ZR	10.3 G	80-KM (SMF)	LC-2	1300	EML	0 ~ 4	APD	-23
SFP+ BiDi	10.3 G	20-KM (SMF)	LC	1270 1330	DFB	-3 ~ 3	PIN	-14.4



SFP28 Transceiver (25Gb/s)

Product	Rate	Reach	Conn.	W.L. (nm)	Tx	Power (dBm)	RX	Sen. (dBm)
SFP28 SR	25 G	70 m (OM3) 100 m (OM4)	LC-2	850	VCSEL	-5 ~ 2.4	PIN	-10.3
SFP28 IR	25 G	2-KM (SMF)	LC-2	1310	DFB	-4 ~ 2	PIN	-8.4
SFP28 LR	25 G	10-KM (SMF)	LC-2	1310	DFB	-7 ~ 2	PIN	-12
SFP28 ER	25 G	40-KM (SMF)	LC-2	1310	DFB	-3 ~ 6	PIN	-19
SFP28 ZR	25 G	80-KM (SMF)	LC-2	1300	EML	-7 ~ 2	PIN	-31
SFP28 BiD	25 G	20-KM (SMF)	LC	1270 1330	DFB	0 ~ 6	PIN	-13.3



SFP56 Transceiver (50Gb/s)

Product	Rate	Reach	Conn.	W.L. (nm)	TX	Power (dBm)	RX	Sen. (dBm)	Electric Line	PAM4/ NRZ	Optical Line	PAM4/ NRZ
SFP56 SR	50 G	70 m (OM3) 100 m (OM4)	LC-2	850	VCSEL	-6.5 ~ 4	PIN	-6.5	2 x 25Gb/s	PAM4	2 x 25Gb/s	PAM4
SFP56 FR	50 G	2-KM (SMF)	LC-2	1311	DFB	-4.1 ~ 3	PIN	-6.9	2 x 25Gb/s	PAM4	2 x 25Gb/s	PAM4
SFP56 LR	50 G	10-KM (SMF)	LC-2	1311	DFB	-4.5 ~ 4.2	PIN	-8.4	2 x 25Gb/s	PAM4	2 x 25Gb/s	PAM4
SFP56 ER	50 G	40-KM (SMF)	LC-2	1311	DFB	0.4 ~ 6.63	PIN	-15.1	2 x 25Gb/s	PAM4	2 x 25Gb/s	PAM4

DAC ACC • AEC

Direct Attach Copper Cable



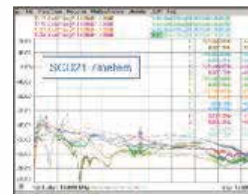
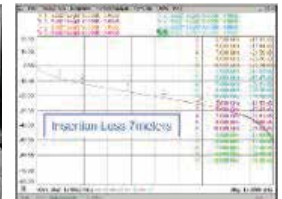
SFP+: 10G/25G/56G/112G

DSFP: 20G/50G/100G

QSFP: 40G/100G/200G/400G
DDR/FDR/EDR/HDR/NDR

Q-DD: 200G/400G/800G

OSFP: 200G/400G/800G



OSFP



**400G
OSFP-RHS
NDR**

/

**800G
OSFP
NDR**



QSFP-DD

200G
DD-28

/

400G
DD-56
HDR

/

800G
DD-112
NDR



QSFP

100G
Q28
EDR

/

200G
Q56
HDR

/

400G
Q112
NDR





SFP

25G
SFP28

/

50G
SFP56

T/SR/LRM/IR/LR/CWDM/DWDM/ER/ZR



400G OSFP DAC (56G PAM4)

Product	Rate	Gauge			
		AWG32	AWG30	AWG28	AWG26
OSFP 400G 0 - 0	8 x 50G	1	2	2.5	3

800 Gb/s OSFP DAC (100G PAM4)

Product	Rate	Gauge			
		AWG32	AWG30	AWG28	AWG26
OSFP 800G 0 - 0	8 x 100G	0.5	1	1.2	1.5

200G QSFP-DD DAC (25G NRZ)

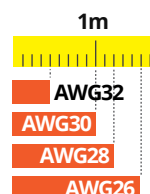
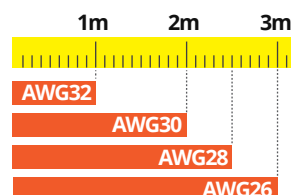
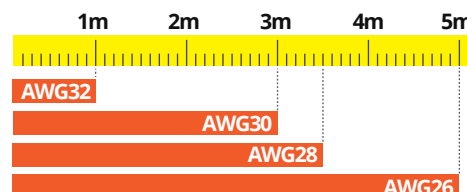
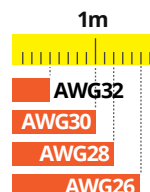
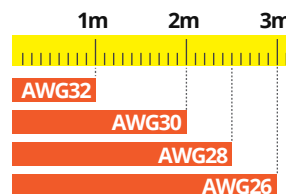
Product	Rate	Length (meter)			
		AWG32	AWG30	AWG28	AWG26
QSFP-DD 200G Q-Q	8 x 25G	1	3	3.5	5
QSFP-DD 200G Q - 4 x Q28	8 x 25G	1	3	3.5	5
QSFP-DD 200G Q - 4 x DSFP28	8 x 25G	1	3	3.5	5
QSFP-DD 200G Q - 2 x Q28	8 x 25G	1	3	3.5	5
QSFP-DD 200G Q - 8 x SFP28	8 x 25G	1	3	3.5	5

400G QSFP-DD DAC (56G PAM4)

Product	Rate	Length (meter)			
		AWG32	AWG30	AWG28	AWG26
QSFP-DD 400G Q - Q	8 x 50G	0.5	2	2.5	3
QSFP-DD 400G Q - 4 x Q56	8 x 50G	0.5	2	2.5	3
QSFP-DD 400G Q - 4 x DSFP56	8 x 50G	0.5	2	2.5	3
QSFP-DD 400G Q - 2 x Q56	8 x 50G	0.5	2	2.5	3
QSFP-DD 400G Q - 8 x SFP56	8 x 50G	0.5	2	2.5	3

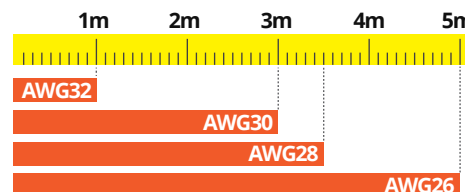
800G QSFP-DD DAC (100G PAM4)

Product	Rate	Length (meter)			
		AWG32	AWG30	AWG28	AWG26
QSFP-DD 800G Q - Q	8 x 100G	0.5	1	1.2	2



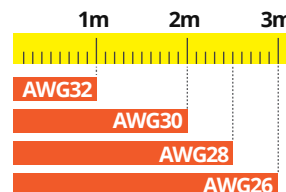
100G QSFP28 DAC

Product	Rate	Length (meter)			
		AWG32	AWG30	AWG28	AWG26
QSFP28 Q-Q	4 x 25G	1	3	3.5	5
QSFP28 Q-2Q	4 x 25G	1	3	3.5	5
QSFP28 Q-2DSFP28	4 x 25G	1	3	3.5	5
QSFP28 Q-4SFP28	4 x 25G	1	3	3.5	5



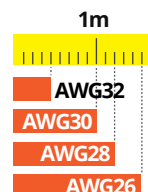
200G QSFP56 DAC

Product	Rate	Length (meter)			
		AWG32	AWG30	AWG28	AWG26
QSFP56 Q-Q	4 x 50G	0.5	2	2.5	3
QSFP56 Q-2Q56	4 x 50G	0.5	2	2.5	3
QSFP56 Q-2DSFP56	4 x 50G	0.5	2	2.5	3
QSFP56 Q-4SFP56	4 x 50G	0.5	2	2.5	3



400G QSFP112 DAC

Product	Rate	Length (meter)			
		AWG32	AWG30	AWG28	AWG26
QSFP112 Q-Q	4 x 100G	0.5	1	1.2	2
QSFP112 Q-2Q56	4 x 100G	0.5	1	1.2	2
QSFP112 Q-2DSFP56	4 x 100G	0.5	1	1.2	2
QSFP112 Q-4SFP56	4 x 100G	0.5	1	1.2	2



AOC

Active Optical Cable



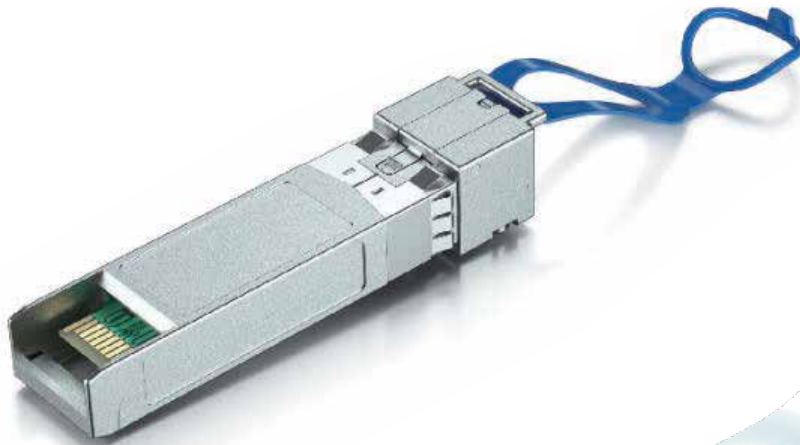
200G~800G AOC

Product	Data Rate	Wavelength	Distance
QSFP to QSFP	8x100G 800GbE	850nm	Up to 30m
QSFP to 2xQSFP112	2x400GbE	850nm	Up to 30m
QSFP-DD to QSFP-DD	8x100G 800GbE	850nm	Up to 30m
QSFP-DD to 2xQSFP112	2x400GbE	850nm	Up to 30m
QSFP to QSFP	8x50G 400GbE	850nm	Up to 30m
QSFP to QSFP112	QSFP 8x50G 400GbE QSFP112 4x100G 400GbE	850nm	Up to 30m
QSFP-DD to QSFP	QSFP-DD 8x50G 400GbE QSFP 4x100G 400GbE	850nm	Up to 30m
QSFP-DD to QSFP-DD	8x50G 400GbE	850nm	Up to 30m
QSFP-DD to QSFP112	QSFP-DD 8x50G 400GbE QSFP112 4x100G 400GbE	850nm	Up to 30m
QSFP-DD to 2xQSFP112	QSFP-DD 8x50G 2x200GbE QSFP112 2x100G 200GbE	850nm	Up to 30m
QSFP-DD to 2xQSFP56	2x200GbE	850nm	Up to 30m
QSFP-DD to 4xQSFP28	4x100GbE	850nm	Up to 30m
QSFP56 to QSFP56 *Support Infiniband (IB)	4x50G 200GbE	850nm	Up to 30m
QSFP56 to 2xQSFP56	2x100GbE	850nm	Up to 30m
SFP-DD to SFP-DD	2x50G 100GbE	850nm	Up to 30m

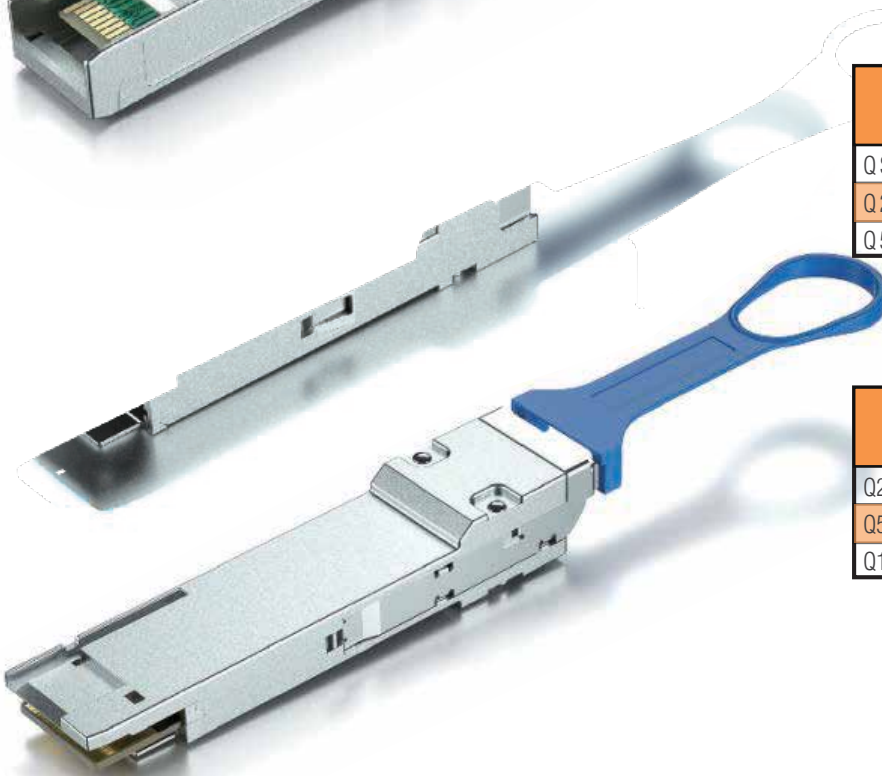
10G~100G AOC

Product	Wavelength	Distance
100G QSFP28 to 100G QSFP28	850nm	OM3 up to 70m, OM4 for over 70m
100G QSFP28 to 2x QSFP28 (50G)	850nm	OM3 up to 70m, OM4 for over 70m
100G QSFP28 to 4x SFP28 (25G)	850nm	OM3 up to 70m, OM4 for over 70m
56G QSFP+ to QSFP+	850nm	OM3 up to 100m
40G QSFP+ to QSFP+	850nm	OM3 up to 100m
40G QSFP+ to 4xSFP+	850nm	OM3 up to 100m
40G QSFP+ to 8LC	850nm	OM3 up to 100m
25G SFP28 to SFP28	850nm	OM3 up to 70m, OM4 for over 70m
10G SFP+ to SFP+	850nm	OM3 up to 300m

Loopback



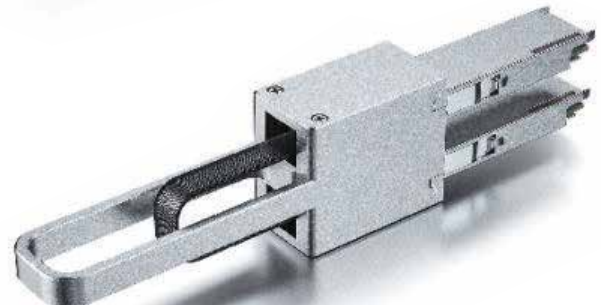
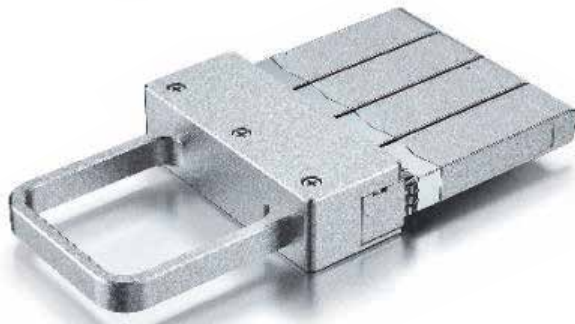
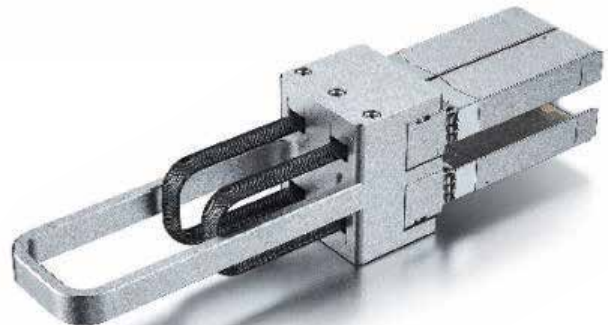
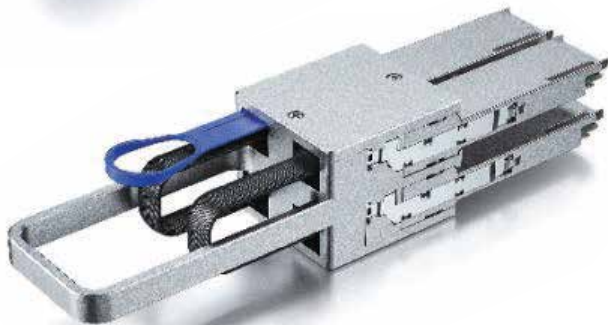
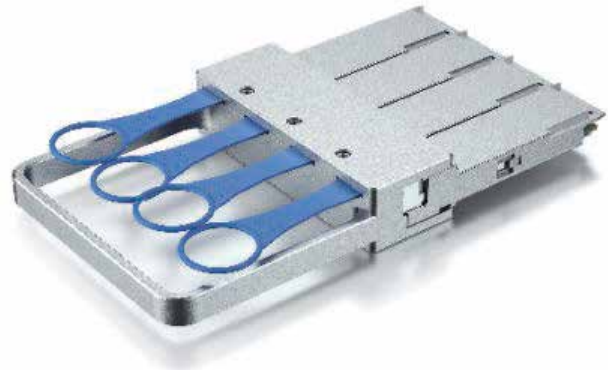
Product	Rate	Attenuation (dB)	Power C (W)
SFP+ Loopback	10 G	0~5	0~5
SFP28 Loopback	25 G		
SFP56 Loopback	56 G		



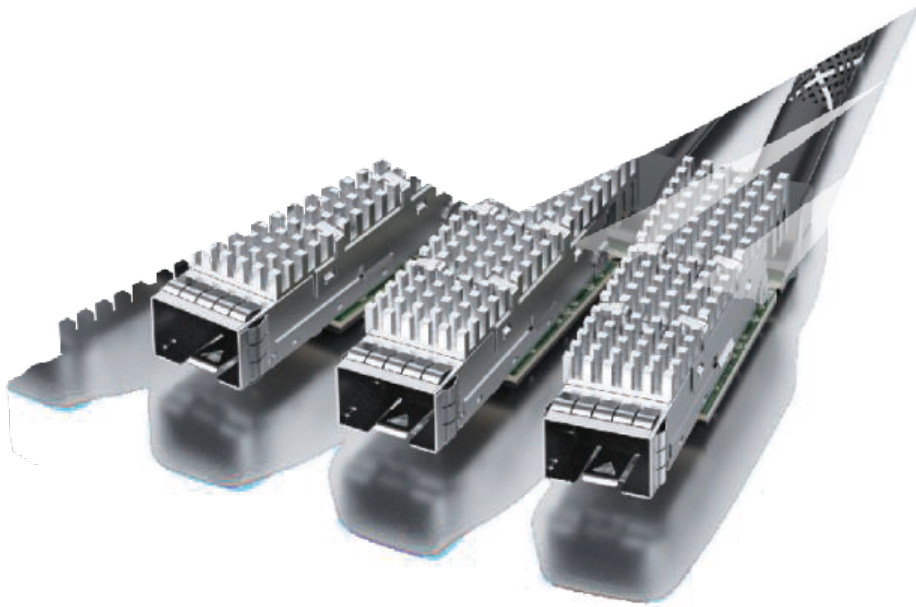
Product	Rate	Attenuation (dB)	Power C (W)
QSFP+ Loopback	40 G	0~5	0~5
Q28 Loopback	100 G		
Q56 Loopback	200 G		

Product	Rate	Attenuation (dB)	Power C (W)
Q28-DD Loopback	200 G	0~5	0~5
Q56-DD Loopback	400 G		
Q112-DD Loopback	800 G		

Loopback



SFP/QSFP Extender



Extender



S-Cage to S



2Q-Cage to QDD



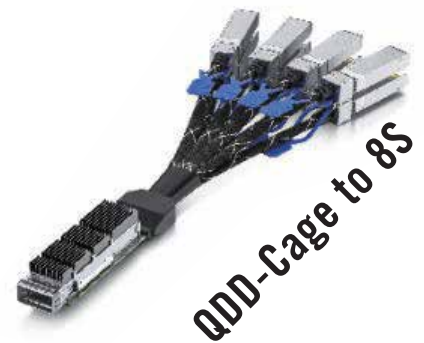
QDD-Cage to 2Q



Q-Cage to Q



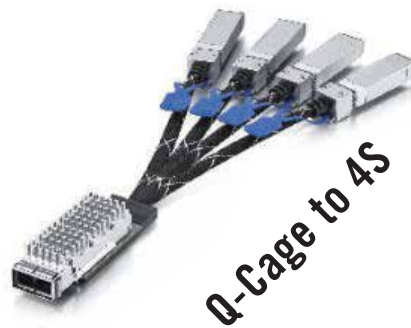
4S-Cage to Q



QDD-Cage to 8S

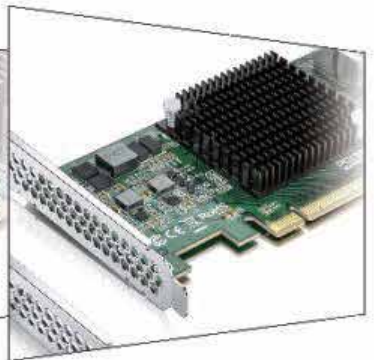
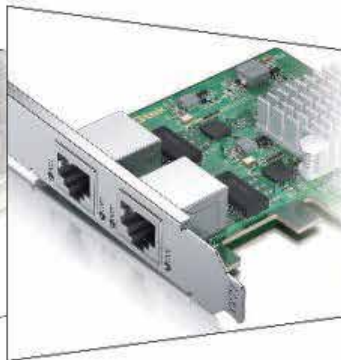
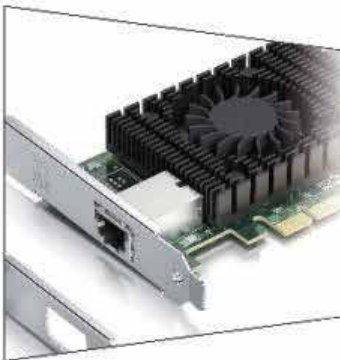
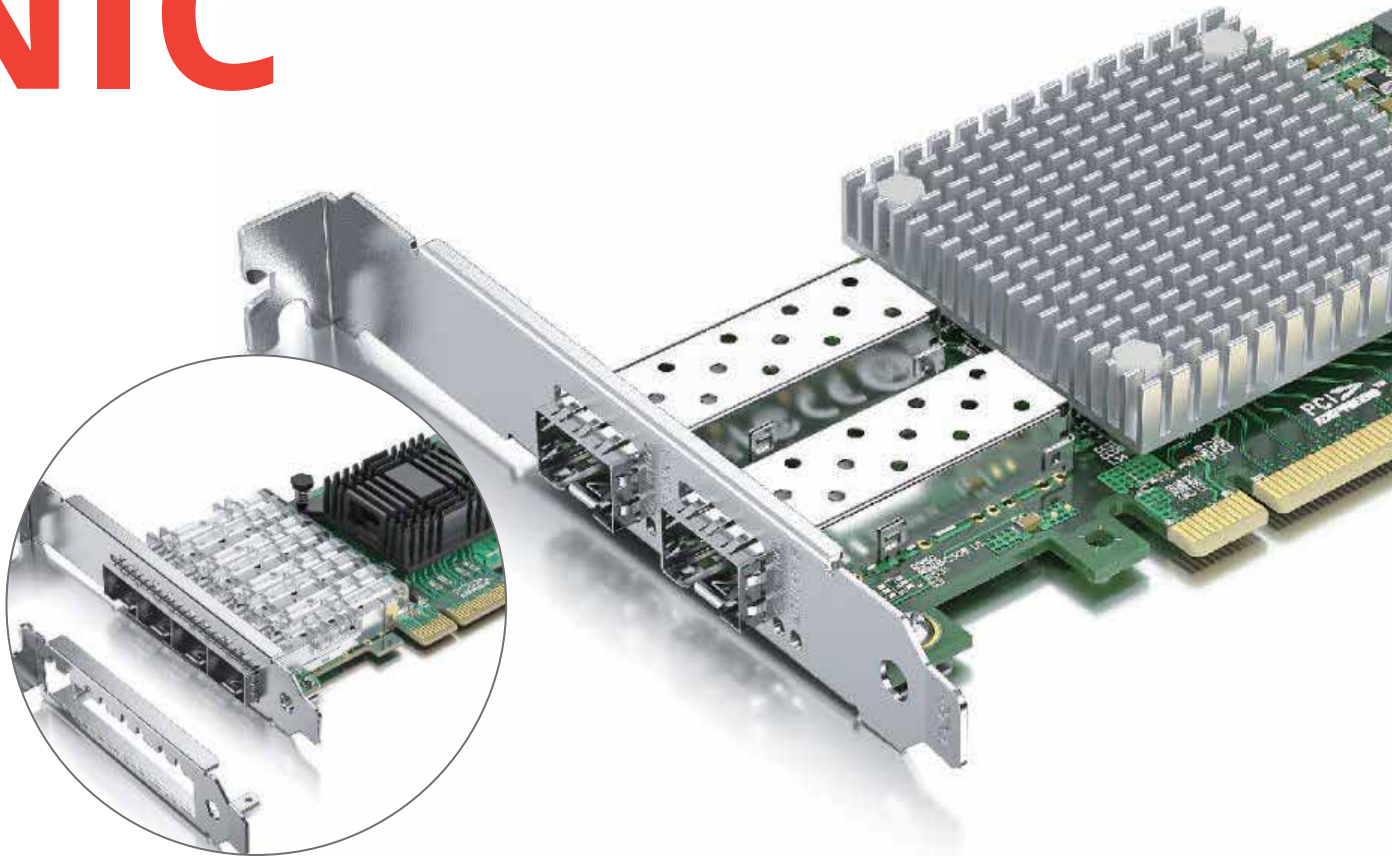


QDD-Cage to QDD



Q-Cage to 4S

NIC



1G / 2.5G NIC Series



Product Name	I350-GE-2T-X4	I350-GE-4T-X4	I350-GE-2S-X4	I350-GE-4S-X4	RTL8125-2.5G-2T-X1	RTL8125-2.5G-4T-X4
Controller	I350-AM2	I350-AM4	I350-AM2	I350-AM4	Realtek RTL8125BG	Realtek RTL8125BG
Port Configuration	(2x) RJ-45	(4x) RJ-45	(2x) SFP	(4x) SFP	(2x) RJ45	(4x) RJ45
System Interface Type	PCIe 2.0 X4	PCIe 2.0 X4	PCIe 2.0 X4	PCIe 2.0 X4	PCIe 2.0 X1	PCIe 2.0 X4
Data Rate Per Port	1 Gb/s	1 Gb/s	1 Gb/s	1 Gb/s	2.5 Gb/s	2.5 Gb/s

10G / 40G NIC Series



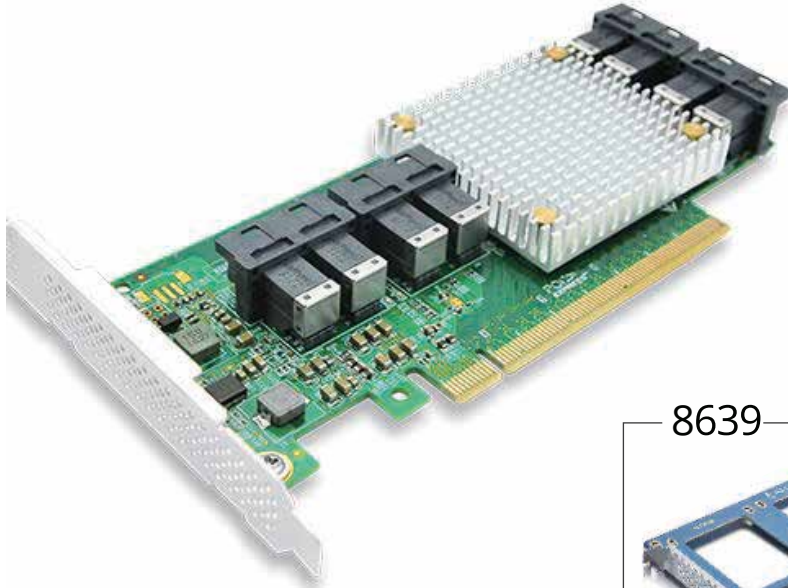
Product Name	X550-10G-1T-X4	X550-10G-2T-X4	X710-10G-2S-X8	XL710-10G-4S-X8	XL710-40G-1Q-X8	XL710-40G-2Q-X8
Controller	Intel X550-AT	Intel X550-AT2	X710-BM2	XL710-BM1	XL710-AM1	XL710-BM2
Port Configuration	(1x) RJ-45	(2x) RJ-45	(2x) SFP+	(4x) SFP+	(1x) QSFP	(2x) QSFP
System Interface Type	PCIe 3.0 X4	PCIe 3.0 X4	PCIe 3.0 X8	PCIe 3.0 X8	PCIe 3.0 X8	PCIe 3.0 X8
Data Rate Per Port	10 Gb/s	10 Gb/s	10 Gb/s	10 Gb/s	40 Gb/s	40 Gb/s

25G / 100G NIC Series



Product Name	57414-25G-2S-X8	710-25G-2S-X8	E810-25G-2S-X8	E810-100G-1Q-X16	E810-100G-2Q-X16
Controller	Broadcom 57414	XXV710-AM2	E810-XXVAM2	Intel E810-CAM1	Intel E810-CAM2
Port Configuration	(2x) SFP28	(2x) SFP28	(2x) SFP28	(1x) QSFP28	(2x) QSFP28
System Interface Type	PCIe 3.0 X8	PCIe 3.0 X8	PCIe 3.0 X8	PCIe 4.0 X16	PCIe 4.0 X16
Data Rate Per Port	25 Gb/s	25 Gb/s	25 Gb/s	100 Gb/s	100 Gb/s

Storage Card



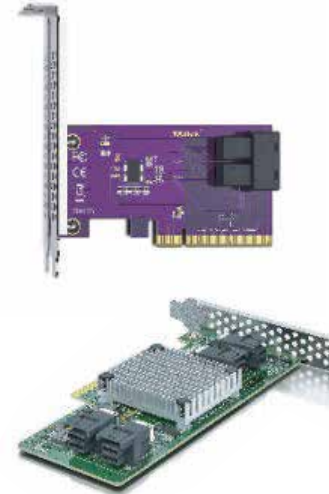
8654



8639



8643



sata



m.2



U.2 NVMe SSD Expansion Card



Product Name	S96N1X4-0	S96N2X8-0	S96N416-0	S96S4X8	S54N1X4	S54N2X8	S55N216
PEX Controller	/	/	/	PEX8724	/	/	/
Port Configuration	(1x) SFF-8643	(2x) SFF-8643	(4x) SFF-8643	(4x) SFF-8643	(1x) SFF-8654 4i	(2x) SFF-8654 4i	(2x) SFF-8654 8i
System Interface Type	PCIe 3.0 X4	PCIe 3.0 X8	PCIe 3.0 X16	PCIe 3.0 X8	PCIe 4.0 X4	PCIe 4.0 X8	PCIe 4.0 X16
SSD Protocol	NVMe	NVMe	NVMe	NVMe	NVMe	NVMe	NVMe
Bifurcation Support	NO	NO	NO	Yes	NO	NO	NO

SATA SSD Expansion Card



Product Name	SSTN2X1-0	SSTN4X1	SSTN4X2	SSTN6X2
Controller	Asmedia ASM1061	Asmedia ASM1064	Asmedia ASM1164	Asmedia ASM1166
Port Configuration	(2x) SATA / (2x) ESATA	(4x) SATA	(4x) SATA	(6x) SATA
System Interface Type	PCIe 2.0 X1	PCIe 3.0 X1	PCIe 3.0 X4 (Bus width: X2)	PCIe 3.0 X4 (Bus width: X2)
SSD Protocol	SATA	SATA	SATA	SATA
Raid Support	NO	NO	NO	NO

SAS Cable

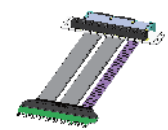


	4x	8x	16x
MCIO			
GEN-Z			
Sliver			
SlimSAS			

PCIe Extender



PCIe 4.0 X16 Extender



Product	P444MF11xx	P444MF15xx	P444MF11xx-R	P444MF15xx-R	P444MF15xx-C
Bandwidth	32GB/s	32GB/s	32GB/s	32GB/s	32GB/s
Male	X16	X16	X16	X16	X16
Female	X16	X16	X16	X16	X16
Male Angle	180°	180°	180°	180°	180°
Female Angle	180°	90°	180°	90°	90°
Cable Length	0.15m~0.8m	0.15m~0.8m	0.15m~0.8m	0.15m~0.8m	0.15m~0.8m
Raw Cable-R	-	-	✓	✓	-
Female Rotate-C	-	-	-	-	✓
With Buckle-B	-	-	-	-	-



Product	P444MF00xx-C	P444MF11xx-B	P444MF15xx-B	P444MFxxxx-xxx
Bandwidth	32GB/s	32GB/s	32GB/s	32GB/s
Male	X16	X16	X16	X16
Female	X16	X16	X16	X16
Male Angle	0°	180°	180°	Customization
Female Angle	0°	180°	90°	Customization
Cable Length	0.15m~0.8m	0.15m~0.8m	0.15m~0.8m	0.15m~0.8m
Raw Cable-R	-	-	-	Customization
Female Rotate-C	✓	-	-	Customization
With Buckle-B	-	✓	✓	Customization



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