



Huawei Data Center Switch Optical Transceiver Portfolio



100GE

QSFP28



MPO12 Connector

Model	Description
QSFP28-100G-SR4	100GBase-SR4 Optical Transceiver, QSFP28, 100G, Multi-mode (850nm, 0.1km, MPO)
QSFP28-100G-SR4-ISP	100GBase-SR4 Optical Transceiver, QSFP28, 100G, Multi-mode (850nm, 0.1km, MPO, ISP)
QSFP28-100G-PSM4	100GBase-PSM4 Optical Transceiver, QSFP28, 100G, Single-mode module (1310nm, 0.5km, MPO)

Aerial

Model	Description
QSFP-100G-SWDM4	100GBase-SWDM4 Optical Transceiver, QSFP+, 100GE, Multi-mode Module (850, 0.075km-QM3, 0.1km-QM4, LC)
QSFP-100G-CWDM4	100GBase-CWDM4 Optical Transceiver, QSFP28, 100G, Single-mode module (1310nm, 2km, LC)
QSFP-100G-CWDM4-ISP	100GBase-CWDM4 Optical Transceiver, QSFP28, 100G, Single-mode module (1310nm, 2km, LC, ISP)
QSFP-100G-eCWDM4	100GBase-eCWDM4 Optical Transceiver, QSFP28, 100G, Single-mode module (1310nm, 10km, LC)
QSFP28-100G-LR4	100GBase-LR4 Optical Transceiver, QSFP28, 100G, Single-mode (1310nm, 10km, LC)
QSFP-100G-LR4-ISP	100GBase-LR4 Optical Transceiver, QSFP28, 100G, Single-mode (1310nm, 10km, LC, ISP)
QSFP-100G-ER4-Lite	100GBase-ER4-Lite Optical Transceiver, QSFP28, 100G, Single-mode module (1310nm, 30km (FEC OFF), 40km (FEC ON), LC)



AOC

Model	Description
QSFP-100G-AOC-10M	Active Optical Cable, QSFP28, 100G, (850nm, 10m, AOC)

DAC

Model	Description
QSFP28-100G-CU1M	QSFP28, 100G, High Speed Direct-attach Cables, 1m, (QSFP28), CC8P0.254B(S), QSFP28, Used indoor
QSFP28-100G-CU3M	QSFP28, 100G, High Speed Direct-attach Cables, 3m, (QSFP28), CC8P0.254B(S), QSFP28, Used indoor
QSFP28-100G-CU5M	QSFP28, 100G, High Speed Direct-attach Cables, 5m, (QSFP28), CC8P0.4B(S), QSFP28, Used indoor

DAC (100G split into 4*25G)

Model	Description
QSFP-4SFP25G-CU1M	100GE QSFP28-4SFP25G, High Speed Direct-attach Cables, 1m, (QSFP28), (4*(CC2P0.254B(S))), (4SFP28)
QSFP-4SFP25G-CU3M	100GE QSFP28-4SFP25G, High Speed Direct-attach Cables, 3m, (QSFP28), (4*(CC2P0.254B(S))), (4SFP28)
QSFP-4SFP25G-CU3M-N	100GE QSFP28-4SFP25G, High Speed Direct-attach Cables, 3m, (QSFP28), (4*(CC2P0.4B(S))), (4SFP28)
QSFP-4SFP25G-CU5M	100GE QSFP28-4SFP25G, High Speed Direct-attach Cables, 5m, (QSFP28), (4*(CC2P0.4B(S))), (4SFP28)

CFP



MPO24 Connector

Model	Description
CFP-100G-SR10	High Speed Transceiver, CFP, 100G, Multimode Module (850nm, 10*10G, 0.1km, MPO)



LC Connector

Model	Description
CFP-100G-LR4	High Speed Transceiver, CFP, 100G, Single-mode Module (1310nm band, 4*25G, 10km, stright LC)
CFP-100G-ER4	High Speed Transceiver, CFP, 100G, Single-mode Module (1310nm band, 4*25G, 40km, stright LC)

CFP2



MPO24 Connector

Model	Description
CFP2-100G-SR10	High Speed Transceiver, CFP2, 100G, Multimode Module (850nm, 10*10G, 0.1km, MPO)



LC Connector

Model	Description
CFP2-100G-LR4	High Speed Transceiver, CFP2, 100G, Single-mode Module (1310nm band, 4*25G, 10km, stright LC)
CFP2-100G-ER4	High Speed Transceiver, CFP2, 100G, Single-mode Module (1310nm band, 4*25G, 40km, stright LC)

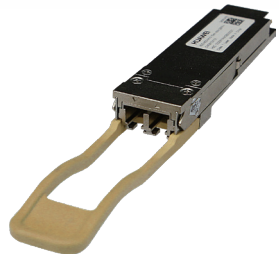
40GE

QSFP+



MPO12 Connector

Model	Description
QSFP-40G-ISR4	40GBase-ISR4 Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, 0.15km, MPO) (connecting to one QSFP+ or four SFP+)
QSFP-40G-eSR4	40GBase-eSR4 Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, 0.3km, MPO) (connecting to one QSFP+ or four SFP+)
QSFP-40G-eSM4	40GBase-eSM4 Optical Transceiver, QSFP+, 40G, Single-mode Module (1310nm, 10km, MPO) (connecting to one QSFP+ or four SFP+)



LC Connector

Model	Description
QSFP-40G-SR-BD	40GBase-BD Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, 0.1km, LC)
QSFP-40G-SDLC-PAM	40GBase-SDLC Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, PAM4, 0.1km-OM3, 0.15km-OM4, LC)
QSFP-40G-eSDLC-PAM	40GBase-eSDLC Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, PAM4, 0.1km-OM3, 0.3km-OM4, LC)
QSFP-40G-SDLC-PAM-G2	40GBase-SDLC Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, PAM4-G2, 0.1km-OM3, 0.15km-OM4, LC)
QSFP-40G-eSDLC-PAM-G2	40GBase-eSDLC Optical Transceiver, QSFP+, 40G, Multi-mode (850nm, PAM4-G2, 0.1km-OM3, 0.3km-OM4, LC)
QSFP-40G-LR4-Lite	40GBase-LR4 Lite Optical Transceiver, QSFP+, 40G, Single-mode Module (1310nm, 2km, LC)
QSFP-40G-LR4	40GBase-LR4 Optical Transceiver, QSFP+, 40GE, Single-mode Module (1310nm, 10km, LC)
QSFP-40G-ER4	40GBase-ER4 Optical Transceiver, QSFP+, 40G, Single-mode Module (1310nm, 40km, LC)



AOC

Model	Description
QSFP-H40G-AOC10M	Optical transceiver, QSFP+, 40G, (850nm, 10m, AOC)



AOC (40G spilt into 4*10G)

Model	Description
QSFP-4SFP10-AOC10M	Optical transceiver, QSFP+, 40G, (850nm, 10m, AOC) (Connect to four SFP+ Optical Transceiver)



DAC

Model	Description
QSFP-40G-CU1M	QSFP+, 40G, High Speed Direct-attach Cables, 1m, QSFP+38M, CC8P0.254B(S), QSFP+38M, Used indoor
QSFP-40G-CU3M	QSFP+, 40G, High Speed Direct-attach Cables, 3m, QSFP+38M, CC8P0.32B(S), QSFP+38M, Used indoor
QSFP-40G-CU5M	QSFP+, 40G, High Speed Direct-attach Cables, 5m, QSFP+38M, CC8P0.40B(S), QSFP+38M, Used indoor



DAC (40G spilt into 4*10G)

Model	Description
QSFP-4SFP10G-CU1M	QSFP+, 4SFP+10G, High Speed Direct-attach Cables, 1m, QSFP+38M, CC8P0.254B(S), 4*SFP+20M, Used indoor
QSFP-4SFP10G-CU3M	QSFP+, 4SFP+10G, High Speed Direct-attach Cables, 3m, QSFP+38M, CC8P0.32B(S), 4*SFP+20M, Used indoor
QSFP-4SFP10G-CU5M	QSFP+, 4SFP+10G, High Speed Direct-attach Cables, 5m, QSFP+38M, CC8P0.40B(S), 4*SFP+20M, Used indoor

25GE

QSFP+



SFP28

Model	Description
SFP-25G-SR	25GBASE-SR Optical Transceiver-SFP28-25G Multi-mode(850nm,0.1km,LC)

DAC

Model	Description
SFP-25G-CU1M	SFP28, 25G, High Speed Direct-attach Cables, 1m, (SFP28), CC8P0.254B(S), SFP28
SFP-25G-CU3M	SFP28, 25G, High Speed Direct-attach Cables, 3m, (SFP28), CC8P0.254B(S), SFP28
SFP-25G-CU3M-N	SFP28, 25G, High Speed Direct-attach Cables, 3m, (SFP28), CC2P0.4B(S), (SFP28)
SFP-25G-CU5M	SFP28, 25G, High Speed Direct-attach Cables, 5m, (SFP28), CC2P0.4B(S), (SFP28)



AOC

Model	Description
SFP-25G-AOC-3M	Active Optical Cable, SFP28, 25G, (850nm, 3m, AOC)
SFP-25G-AOC-5M	Active Optical Cable, SFP28, 25G, (850nm, 5m, AOC)
SFP-25G-AOC-5M-A1	Active Optical Cable Assembly, SFP28 AOC, 25.78125G, 0.005km, A
SFP-25G-AOC-5M-A	Active Optical Cable, SFP28, 25G, (850nm, 5m, AOC, Aqua)
SFP-25G-AOC-7M	Active Optical Cable, SFP28, 25G, (850nm, 7m, AOC)
SFP-25G-AOC-7M-A1	Active Optical Cable Assembly, SFP28 AOC, 25.78125G, 0.007km, A
SFP-25G-AOC-7M-A	Active Optical Cable, SFP28, 25G, (850nm, 5m, AOC, Aqua)
SFP-25G-AOC-10M	Active Optical Cable, SFP28, 25G, (850nm, 10m, AOC)
SFP-25G-AOC-10M-A1	Active Optical Cable Assembly, SFP28 AOC, 25.78125G, 0.01km, A
SFP-25G-AOC-10M-A	Active Optical Cable, SFP28, 25G, (850nm, 10m, AOC, Aqua)
SFP-25G-AOC-20M-A1	Active Optical Cable Assembly, SFP28 AOC, 25.78125G, 0.02km, A
SFP-25G-AOC-20M-A	Active Optical Cable, SFP28, 25G, (850nm, 20m, AOC, Aqua)

10GE



SFP+

Model	Description
SFP-10G-USR	10GBASE-USR Optical Transceiver, SFP+, 10G, Multi-mode Module(850nm,0.1km,LC)
OSXD22N00	Optical Transceiver, SFP+, 10G, Multi-mode Module(1310nm,0.22km,LC,LRM)
OMXD30000	Optical Transceiver, SFP+, 10G, Multi-mode Module(850nm,0.3km,LC)
SFP-10G-iLR	Optical Transceiver, SFP+, 9.8G, Single-mode Module(1310nm,1.4km,LC)
SFP-10G-LR	Optical Transceiver, SFP+, 10G, Single-mode Module(1310nm,10km,LC)
OSX040N01	Optical Transceiver, SFP+, 10G, Single-mode Module(1550nm,40km,LC)
SFP-10G-ZR	10GBASE-ZR Optical Transceiver, SFP+, 10G, Single-mode Module(1550nm,80km,LC)
SFP-10G-ZDWT-L	Optical Transceiver, SFP+, 10G, Single-mode Module(DWDM,1560.61-1529.16nm,60km,LC)

BIDI

Model	Description
SFP-10G-BXU1	10GBase, BIDI Optical Transceiver, SFP+, 10G, Single-mode Module(TX1270nm/RX1330nm,10km,LC)
SFP-10G-BXD1	10GBase, BIDI Optical Transceiver, SFP+, 10G, Single-mode Module(TX1330nm/RX1270nm,10km,LC)
SFP-10G-ER-SM1330-BIDI	Optical Transceiver, SFP+, 10G, BIDI Single-mode Module(TX 1330nm/RX 1270nm,40km,LC)
SFP-10G-ER-SM1270-BIDI	Optical Transceiver, SFP+, 10G, BIDI Single-mode Module(TX 1270nm/RX 1330nm,40km,LC)



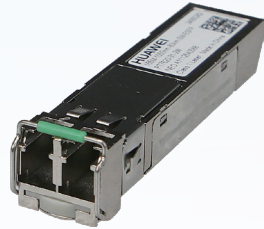
AOC

Model	Description
SFP-10G-AOC-3M	Optical transceiver, SFP+, 1G-10.5G, (850nm, 3m, AOC)
SFP-10G-AOC-5M	Active Optical Cable, SFP+, 10G, (850nm, 5m, AOC)
SFP-10G-AOC-7M	Active Optical Cable, SFP+, 10G, (850nm, 7m, AOC)
SFP-10G-AOC10M	AOC Optical Transceiver, SFP+, 850nm, 1G-10G, 10m

DAC

Model	Description
SFP-10G-CU1M	SFP+, 10G, High Speed Direct-attach Cables, 1 m, SFP+20M, CC2P0.254B(S), SFP+20M, Used indoor
SFP-10G-CU3M	SFP+, 10G, High Speed Direct-attach Cables, 3 m, SFP+20M, CC2P0.254B(S), SFP+20M, Used indoor
SFP-10G-CU5M	SFP+, 10G, High Speed Cable, 5m, SFP+20M, CC2 P0.254B(S), SFP+20M, LSFRZH For Indoor
SFP-10G-AC7M	SFP+, 10G, Active High Speed Cable, 7m, SFP+20 M, CC2P0.254B(S), SFP+20M, LSFRZH For Indoor
SFP-10G-AC10M	SFP+, 10G, Active High Speed Cables, 10m, SFP+ 20M, CC2P0.32B(S), SFP+20M, Used indoor

1GE



eSFP

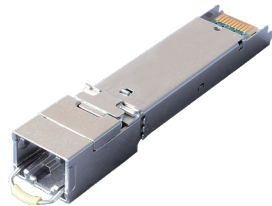
Model	Description
eSFP-GE-SX-MM850	Optical Transceiver,eSFP,GE,Multi-mode Module(850nm,0.55km,LC)
SFP-GE-LX-SM1310	Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,10km,LC)
S-SFP-GE-LH40-SM1310	Optical Transceiver,eSFP,GE,Single-mode Module(1310nm,40km,LC)
S-SFP-GE-LH80-SM1550	Optical Transceiver,eSFP,GE,Single-mode Module(1550nm,80km,LC)



BIDI

S4015819

Model	Description
SFP-GE-LX-SM1310-BIDI	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1310/RX1490,10km,LC)
SFP-GE-LX-SM1490-BIDI	Optical Transceiver,eSFP,GE,BIDI Single-mode Module(TX1490/RX1310,10km,LC)



Electrical Transceiver

Model	Description
SFP-1000BaseT	Electrical Transceiver,SFP,GE,Electrical Interface Module(100m,RJ45)

Connection Table of Huawei Data Center Switch Optical transceiver

		100G QSFP28								
		QSFP-100G-SWDM4	QSFP-100G-SR4	QSFP-100G-SR4-NT	QSFP-100G-PSM4	QSFP-100G-CWDM4	QSFP-100G-CWD M4-NT	QSFP-100G-eCWD M4	QSFP-100G-LR4	QSFP-100G-ER4-Lite
100G QSFP28	QSFP-100G-SWDM4	✓	×	×	×	×	×	×	×	×
	QSFP-100G-SR4	×	✓	✓	×	×	×	×	×	×
	QSFP-100G-SR4-NT	×	✓	✓	×	×	×	×	×	×
	QSFP-100G-PSM4	×	×	×	✓	×	×	×	×	×
	QSFP-100G-CWDM4	×	×	×	×	✓	✓	✓	×	×
	QSFP-100G-CWDM4-NT	×	×	×	×	✓	✓	✓	×	×
	QSFP-100G-eCWDM4	×	×	×	×	✓	✓	✓	×	×
	QSFP-100G-LR4	×	×	×	×	×	×	×	✓	✓
QSFP-100G-ER4-Lite	×	×	×	×	×	×	×	✓	✓	
100G CFP	CFP-100G-SR10	×	×	×	×	×	×	×	×	×
	CFP-100G-LR4	×	×	×	×	×	×	×	✓	✓
	CFP-100G-ER4	×	×	×	×	×	×	×	✓	✓
	CFP-100G-ZR4	×	×	×	×	×	×	×	×	✓
100G CFP2	CFP2-100G-SR10	×	×	×	×	×	×	×	×	×
	CFP2-100G-LR4	×	×	×	×	×	×	×	✓	✓
	CFP2-100G-ER4	×	×	×	×	×	×	×	✓	✓
40G CFP	CFP-40G-LR4	×	×	×	×	×	×	×	×	×
	CFP-40G-ER4	×	×	×	×	×	×	×	×	×
40G QSFP+	QSFP-40G-LX4	×	×	×	×	×	×	×	×	×
	QSFP-40G-SR-BD	×	×	×	×	×	×	×	×	×
	QSFP-40G-SDLC-PAM	×	×	×	×	×	×	×	×	×
	QSFP-40G-eSDLC-PAM	×	×	×	×	×	×	×	×	×
	QSFP-40G-iSR4	×	×	×	×	×	×	×	×	×
	QSFP-40G-eSR4	×	×	×	×	×	×	×	×	×
	QSFP-40G-iSM4	×	×	×	×	×	×	×	×	×
	QSFP-40G-eSM4	×	×	×	×	×	×	×	×	×
	QSFP-40G-LR4-Lite	×	×	×	×	×	×	×	×	×
	QSFP-40G-LR4	×	×	×	×	×	×	×	×	×
	QSFP-40G-ER4	×	×	×	×	×	×	×	×	×
25G SFP28	SFP-25G-SR	×	✓	✓	×	×	×	×	×	×
10G SFP+	SFP-10G-USR	×	×	×	×	×	×	×	×	×
	OSXD22N00	×	×	×	×	×	×	×	×	×
	OMXD30000	×	×	×	×	×	×	×	×	×
	SFP-10G-iLR	×	×	×	×	×	×	×	×	×
	SFP-10G-LR	×	×	×	×	×	×	×	×	×
	OSX040N01	×	×	×	×	×	×	×	×	×
	SFP-10G-ZR	×	×	×	×	×	×	×	×	×
Note: 1. If a high-rate transceiver can be interconnected with low-rate transceivers, ports on the high-rate transceiver must be split so that the transceivers can be interconnected. 2. If long-distance transceivers are interconnected with short-distance transceivers, only the short transmission distance is supported. Whether optical attenuators need to be deployed at the receive end of the short-distance transceivers needs to be evaluated.										

Note:
 1. If a high-rate transceiver can be interconnected with low-rate transceivers, ports on the high-rate transceiver must be split so that the transceivers can be interconnected.
 2. If long-distance transceivers are interconnected with short-distance transceivers, only the short transmission distance is supported. Whether optical attenuators need to be deployed at the receive end of the short-distance transceivers needs to be evaluated.

Optical Fiber

LC-LC MM



LC-LC SM

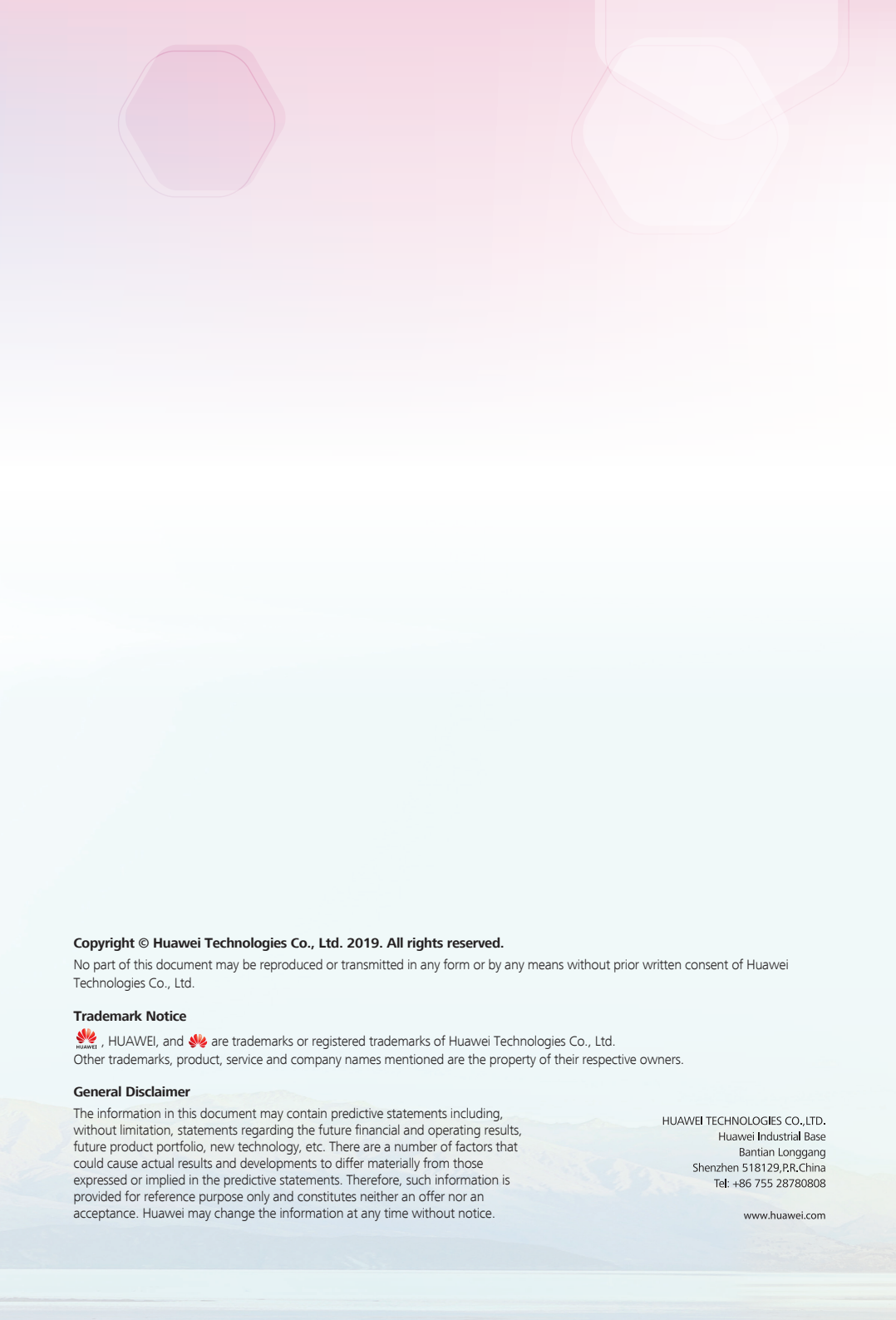


MPO-MPO MM



MPO-DLC





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