

E9000 Chassis Configuration Help

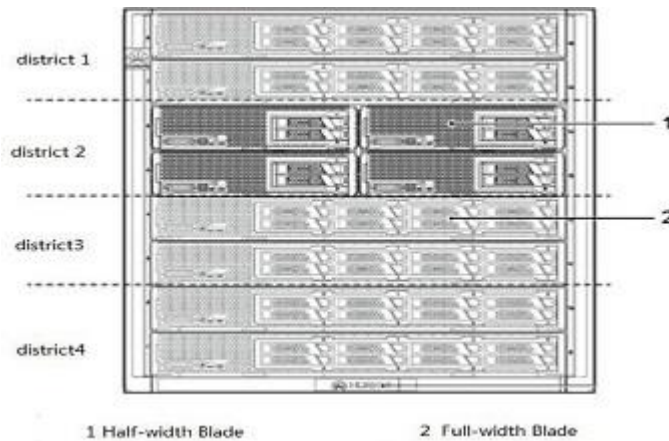
1. ===Chassis Basic Configuration===

- o 1.1 Qty of half-width and full-width blade server make sure that the per chassis configuration to meet the requirements

1.E9000 blade slots Subdivision Description: E9000 blade slot is divided into four partitions, each support two full-width half-width blades or four blades, with a partition can not be mixed into the half-width and full-width calculation compute nodes except for the lowest partition, see Figure 1;

2.single-frame half-width blade maximum number of quick reference configuration, see Figure 2;

3.the half-width blade type: CH121, CH121 V3/V5, CH140, CH140 V3.



E9000 chassis

is divided into four districts, every district supports 2 full-width blades or 4 half-width blades, and cannot mix to insert the half-width blade and full-width blade in the same district

Full-Width Blade Server Qty	0	1	2	3	4	5	6	7	8
Half-Width Blade Server Qty	16	12	12	8	8	4	4	0	0

Full-Width and Half-Width Blade Server Qty per Chassis

- o 1.2 Chassis module type

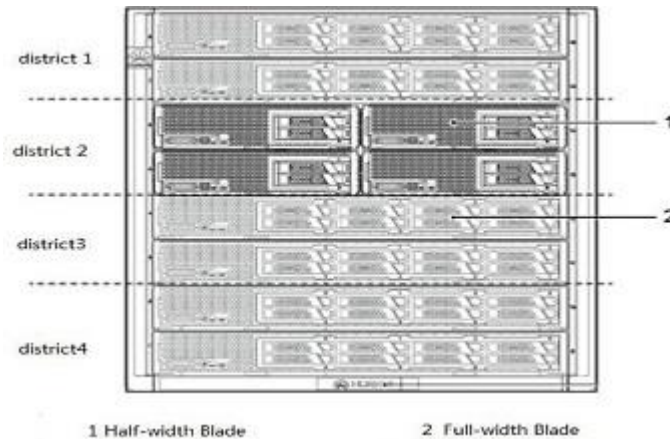
1.When used for 220V/110V AC, please select the AC power supply;

2.When used for -48V DC, please select the DC power supply;

3.Including high speed back plane, support GE/10GE/FC/IB switch;

4.E9000 chassis is divided into four districts, every district supports 2 full-width blades or 4 half-width blades, and cannot mix to insert the half-width blade and full-width blade in the same district;

5.High-performance integrative Chassis supports all switch module, Standard integrative Chassis don't support CX220/CX611/CX620 switch module.



E9000 chassis is divided into four districts, every district supports 2 full-width blades or 4 half-width blades, and cannot mix to insert the half-width blade and full-width blade in the same district

o 1.3 **Number of the management modules**

At least one, up to 2 per Chassis.

o 1.4 **Number of the fan modules**

- 1.One Chassis configure 10 pcs or 14 pcs the fan module;
- 2.Maximal 14 pcs fans per Chassis, 2 pcs fans as a group;
- 3.The quantity of the Half-Width Blade is Less than or equal to 8 pcs or The quantity of the Full-Width Blade is Less than or equal to 4 pcs, configure 10 pcs the fan module;
- 4.The quantity of the Half-Width Blade is more than 8 pcs or The quantity of the Full-Width Blade is more than 4 pcs, configure 14 pcs the fan module.

o 1.5 **Power Module and AC power cord is packaged or not?**

- 1.This is a E2E pilot parameter,it doesn't influence commercial view.
- 2.Choosing Yes,power module and AC power cord will be packaged to be a new part;choosing No,remain the same as current,BOQ shows the power module part,and the AC power cord will be configured in contract configuration center.

o 1.6 **PSU**

1. For more accurate power information, please use the power calculator. link:
<http://support.huawei.com/onlinetoolsweb/ftpa/en>
 2. When configuring CH242 or CH140 with 2000W, 2500W or 3000W Power, please check the entire frame power consumption and power module configuration policy situation if there is insufficient power supply risks; E9000 power estimation and power module configuration policies see "Huawei E9000 Server V100R001 White Paper" Section 3.4, the link: <http://e.huawei.com/en/marketing-material/onLineView?MaterialID={25AECFF9-5896-4AF8-BC1E-0E2AF227D518}>
 3. Below are the rated voltage zones each PSUs supports and situations where the rated power decreases with various voltage input:
 - 2000W titanium PSUs: rated voltage 100 to 240V AC or 192 to 288V DC. The maximum power 800W with 100 to 130V AC input; the maximum power 1800W with 200 to 219V AC or 192 to 204V DC input.
 - 3000W platinum PSUs: rated voltage 100 to 240V AC or 192 to 288V DC. The maximum power 1200W with 100 to 130V AC input; the maximum power 2500W with 200 to 219V AC or 192 to 204V DC input.
 - 2500W DC PSUs: rated voltage -48V to -60V DC.
 - 3000W HVDC PSUs: rated voltage 260 to 400V DC.
- If the requirements are not met after PSU derating, please replace the PSU or consult the product contact person (Jiangtao Wang, employee ID: 00257293);
4. 3000W Platinum AC, 240V HVDC can be used only in China.

○ 1.7 Number of PSUs

1. One Chassis configure 4 pcs or 6 pcs the power module;
2. The quantity of the Half-Width Blade is Less than or equal to 8 pcs or The quantity of the Full-Width Blade is Less than or equal to 4 pcs , configure 4 pcs the power module;
3. The quantity of the Half-Width Blade is more than 8 pcs or The quantity of the Full-Width Blade is more than 4 pcs, configure 6 pcs the power module.

○ 1.8 C13 AC power cord

1. Power Cable recommend Wall Plug and PDU Style, if the use condition is clear, it could select the Wall Plug or PDU Style.
2. 2000W and below power supply use C13 power cable, PDU power cable is 12A in Japan, other countries is 10A; wall plug cable is 12A in Japan, other countries is 10A.
3. If use the wall plug, please select power cable by select Area model(C13 to C13 Wall plug, normal extension cord);
4. If use the PDU plug, please select C13 PDU power cable(C13 to C14 PDU plug, PDU extension cord).



PDU-IEC plug



PDU

Wall plug for



Normal wall plug

o 1.9 **C13 wall plug power cord**

1. Power Cable recommend Wall Plug and PDU Style, if the use condition is clear, it could select the Wall Plug or PDU Style.

2. 2000W and below power supply use C13 power cable, PDU power cable is 12A in Japan, other countries is 10A; wall plug cable is 12A in Japan, other countries is 10A.

3. If use the wall plug, please select power cable by select Area model(C13 to C13 Wall plug, normal extension cord);

4. If use the PDU plug, please select C13 PDU power cable(C13 to C14 PDU plug, PDU extension cord).



Denmark C13-C13



Korea C13-C13



Argentina C13-C13



Australia C13-C13



Brazil C13-C13



Britain C13-C13



China C13-C13



Europe C13-C13



South Africa C13-C13



India C13-C13



Italy C13-C13



Japan C13-C13



North America C13-C13



Switzerland C13-C13

○ 1.10 **C13 PDU power cord**

1.Power Cable recommend Wall Plug and PDU Style, if the use condition is clear, it could select the Wall Plug or PDU Style.

2.2000W and below power supply use C13 power cable, PDU power cable is 12A in Japan, other countries is 10A; wall plug cable is 12A in Japan, other countries is 10A.

3.If use the wall plug, please select power cable by select Area model(C13 to C13 Wall plug, normal extension cord);

4.If use the PDU plug, please select C13 PDU power cable(C13 to C14 PDU plug, PDU extension cord).



China(PDU) C13-14

○ 1.11 **C19 AC power cord**

1.Power Cable recommend Wall Plug and PDU Style, if the use condition is clear, it could select the Wall Plug or PDU Style;

2.3000W power supply can not use Britain style Wall Plug that 13A can make power failure, it must use PDU plug; if need the Britain style Wall Plug, please use 2000W power supply;

3.If use the wall plug, please select power cable by select Area model(C19 to C19 wall plug, normal extension cord);

4.If use the PDU plug, please select C19 PDU power cable(C19 to C20 PDU plug, PDU extension cord).



PDU-IEC plug



PDU

Wall plug for



Normal wall plug

o 1.12 **C19 wall plug power cord**

- 1.Power Cable recommend Wall Plug and PDU Style, if the use condition is clear, it could select the Wall Plug or PDU Style;
- 2.3000W power supply can not use Britain style Wall Plug that 13A can make power failure, it must use PDU plug; if need the Britain style Wall Plug, please use 2000W power supply;
- 3.If use the wall plug, please select power cable by select Area model(C19 to C19 wall plug, normal extension cord);
- 4.If use the PDU plug, please select C19 PDU power cable(C19 to C20 PDU plug, PDU extension cord).



Australia C19-C19



Brazil C19-C19



China C19-C19



Europe C19-C19



South Africa C19-C19



New India C19-C19



Japan C19-C19



North America C19-C19

○ 1.13 **C19 PDU power cord**

1. Power Cable recommend Wall Plug and PDU Style, if the use condition is clear, it could select the Wall Plug or PDU Style;
2. 3000W power supply can not use Britain style Wall Plug that 13A can make power failure, it must use PDU plug; if need the Britain style Wall Plug, please use 2000W power supply;
3. If use the wall plug, please select power cable by select Area model(C19 to C19 wall plug, normal extension cord);
4. If use the PDU plug, please select C19 PDU power cable(C19 to C20 PDU plug, PDU extension cord).



World general (besides Japan, Taiwan, Australia)

C19-C20

2. The blade type of single chassis configuration

1. V3/V5 blade supports different range of switching modules;
2. When selected the only V3 blades, the V3 blade supports the switching module: CX110/CX116/CX210/CX220/CX310/CX311/CX318/CX320/CX611/CX621/CX710/CX912/CX920;
3. When selected the only V5 blades, the V5 blade supports the switching module:

CX110/CX116/CX220/CX318/CX320/CX611/CX621/CX710/CX916/CX920;

4. When selected the V3 and V5 blades selected, the V3 and V5 blades support the switching module:

CX110/CX116/CX220/CX318/CX320/CX611/CX621/CX710/CX920.

3. **===The 1st group Switch Module (2X/3X)===**

o 3.1 **1st group Switch Module (2X/3X) type**

1.The 1st group Switch Module (2X/3X) corresponding connector the MEZZ1/3;

2.The CX110/CX111 Switch Module needs match with MZ110/MZ111 Mezz Card;CX110/CX111 upstream(output) supports 4*10GE + 12*GE electric interface (RJ45), downstream(through the backplane connect the blade) supports 32*GE;

3.The CX116 Switch Module needs match with MZ110 Mezz Card;

4.The CX210/CX220 Switch Module needs match with MZ220 Mezz Card; CX210 FC plane upstream(output) supports 8*8G FC, downstream(through the backplane connect the blade) supports 16*8G FC; CX220 FC plane upstream(output) supports 8*16G FC, downstream(through the backplane connect the blade) supports 16*16G FC;

5.The CX310 Switch Module needs match with MZ310/MZ312/MZ510/MZ512 Mezz Card; CX310 upstream(output) supports 16*10GE, downstream(through the backplane connect the blade) supports 32*10GE;

6.The CX318 Switch Module needs match with MZ310/MZ312 Mezz Card;

7.The CX320 Switch Module needs match with MZ310/MZ312/MZ510/MZ512 Mezz Card; CX320 upstream(output) supports 8*10GE + 2*10GE, downstream(through the backplane connect the blade) supports 32*10GE; Optional flexible card MX517, upstream(output) extended supports 4*8G FC or 4*10GE;

8.The CX912 Switch Module needs match with MZ912 Mezz Card; 10GE plane upstream(output) supports 16*10GE, downstream(through the backplane connect the blade) supports 32*10GE; FC plane upstream(output) supports 8*8G FC, downstream(through the backplane connect the blade) supports 16*8G FC;

9.The CX916 Switch Module(Only supports V5 blades) needs match with MZ220 Mezz Card; CX916 upstream(output) supports 8*10GE/25GE + 2*40GE + 8*16G FC; downstream(through the backplane connect the blade) supports 16*10GE(With V5) + 16*16G FC;

10.The CX916L Switch Module(Only supports V5 blades) needs match with LOM 10GE; CX916 upstream(output) supports 8*10GE/25GE + 2*40GE; downstream(through the backplane connect the blade) supports 16*10GE(With V5) ;

11.The CX920 Switch Module needs match with MZ710 Mezz Card; 40GE plane upstream(output) supports 8*40GE, downstream(through the backplane connect the blade) supports 16*40GE; 10GE plane upstream(output) supports 8*10GE, downstream(through the backplane connect the blade) supports 16*10GE;

12.The CX611 Switch Module needs match with MZ611/MZ612 Mezz Card;CX611 upstream(output) supports 18*FDR/QDR, downstream(through the backplane connect the blade) supports 16*FDR/QDR; The interface of CX611 can be adaptive

FDR/QDR rate;

13.The CX620 Switch Module needs match with MZ620 Mezz Card;CX620 upstream(output) supports 18*EDR/FDR, downstream(through the backplane connect the blade) supports 16*EDR/FDR; The interface of CX620 can be adaptive EDR/FDR rate;

14.The CX710 Switch Module needs match with MZ310/MZ312/MZ510/MZ512/MZ710 Mezz Card; CX710 40GE plane upstream(output) supports 8*40GE, downstream(through the backplane connect the blade) supports 16*40GE or 32*10GE.

MeZZ Switch	MZ110 MZ111	MZ220	MZ310 MZ312	MZ510 MZ512	MZ520 MZ522	MZ611 MZ612	MZ620	MZ710	MZ821	MZ910	MZ912
CX110/CX111	✓	×	×	×	×	×	×	×	×	×	×
CX116	✓	×	×	×	×	×	×	×	×	×	×
CX210	×	✓	×	×	×	×	×	×	×	×	×
CX220	×	✓	×	×	×	×	×	×	×	×	×
CX310	×	×	✓	✓	✓	×	×	×	×	×	×
CX311	×	×	×	✓	✓	×	×	×	×	×	×
CX318	×	×	✓	✓	✓	×	×	×	×	×	×
CX320	×	×	✓	✓	✓	×	×	×	×	×	×
CX611	×	×	×	×	×	✓	×	×	×	×	×
CX620	×	×	×	×	×	×	✓	×	×	×	×
CX710	×	×	✓	✓	✓	×	×	✓	×	×	×
CX820	×	×	×	×	×	×	×	×	✓	×	×
CX912	×	×	×	×	×	×	×	×	×	✓	✓
CX916	×	✓	×	×	×	×	×	×	×	×	×
CX916L	×	×	×	×	×	×	×	×	×	×	×
CX920	×	×	×	×	×	×	×	✓	×	×	×

E9000 Mezz card supports Switch Module type If special circumstances, the need to support special paired relationship, please refer to the 3MS about IO networking guide explains.



CX110



CX11



CX16



CX210



CX220



CX310



CX311



CX318



CX320



CX611



CX620



CX710



CX912



CX916



CX920

○ 3.2 Number of the 1st group Switch Modules

- 1.The 1st group Switch Module (2X/3X) corresponding connector the MEZZ1/3;
- 2.The CX110/CX111 Switch Module needs match with MZ110/MZ111 Mezz Card;CX110/CX111 upstream(output) supports 4*10GE + 12*GE electric interface (RJ45), downstream(through the backplane connect the blade) supports 32*GE;
- 3.The CX116 Switch Module needs match with MZ110 Mezz Card;
- 4.The CX210/CX220 Switch Module needs match with MZ220 Mezz Card; CX210 FC plane upstream(output) supports 8*8G FC, downstream(through the backplane connect the blade) supports 16*8G FC; CX220 FC plane upstream(output) supports 8*16G FC, downstream(through the backplane connect the blade) supports 16*16G FC;
- 5.The CX310 Switch Module needs match with MZ310/MZ312/MZ510/MZ512 Mezz Card; CX310 upstream(output) supports 16*10GE, downstream(through the backplane connect the blade) supports 32*10GE;
- 6.The CX318 Switch Module needs match with MZ310/MZ312 Mezz Card;
- 7.The CX320 Switch Module needs match with MZ310/MZ312/MZ510/MZ512 Mezz Card; CX320 upstream(output) supports 8*10GE + 2*10GE, downstream(through the backplane connect the blade) supports 32*10GE; Optional flexible card MX517,

upstream(output) extended supports 4*8G FC or 4*10GE;

8.The CX912 Switch Module needs match with MZ912 Mezz Card; 10GE plane upstream(output) supports 16*10GE, downstream(through the backplane connect the blade) supports 32*10GE; FC plane upstream(output) supports 8*8G FC, downstream(through the backplane connect the blade) supports 16*8G FC;

9.The CX916 Switch Module(Only supports V5 blades) needs match with MZ220 Mezz Card; CX916 upstream(output) supports 8*10GE/25GE + 2*40GE + 8*16G FC; downstream(through the backplane connect the blade) supports 16*10GE(With V5) + 16*16G FC;

10.The CX916L Switch Module(Only supports V5 blades) needs match with LOM 10GE; CX916 upstream(output) supports 8*10GE/25GE + 2*40GE; downstream(through the backplane connect the blade) supports 16*10GE(With V5) ;

11.The CX920 Switch Module needs match with MZ710 Mezz Card; 40GE plane upstream(output) supports 8*40GE, downstream(through the backplane connect the blade) supports 16*40GE; 10GE plane upstream(output) supports 8*10GE, downstream(through the backplane connect the blade) supports 16*10GE;

12.The CX611 Switch Module needs match with MZ611/MZ612 Mezz Card;CX611 upstream(output) supports 18*FDR/QDR, downstream(through the backplane connect the blade) supports 16*FDR/QDR; The interface of CX611 can be adaptive FDR/QDR rate;

13.The CX620 Switch Module needs match with MZ620 Mezz Card;CX620 upstream(output) supports 18*EDR/FDR, downstream(through the backplane connect the blade) supports 16*EDR/FDR; The interface of CX620 can be adaptive EDR/FDR rate;

14.The CX710 Switch Module needs match with MZ310/MZ312/MZ510/MZ512/MZ710 Mezz Card; CX710 40GE plane upstream(output) supports 8*40GE, downstream(through the backplane connect the blade) supports 16*40GE or 32*10GE.

MeZZ Switch	MZ110 MZ111	MZ220	MZ310 MZ312	MZ510 MZ512	MZ520 MZ522	MZ611 MZ612	MZ620	MZ710	MZ821	MZ910	MZ912
CX110/CX111	✓	×	×	×	×	×	×	×	×	×	×
CX116	✓	×	×	×	×	×	×	×	×	×	×
CX210	×	✓	×	×	×	×	×	×	×	×	×
CX220	×	✓	×	×	×	×	×	×	×	×	×
CX310	×	×	✓	✓	✓	×	×	×	×	×	×
CX311	×	×	×	✓	✓	×	×	×	×	×	×
CX318	×	×	✓	✓	✓	×	×	×	×	×	×
CX320	×	×	✓	✓	✓	×	×	×	×	×	×
CX611	×	×	×	×	×	✓	×	×	×	×	×
CX620	×	×	×	×	×	×	✓	×	×	×	×
CX710	×	×	✓	✓	✓	×	×	✓	×	×	×
CX820	×	×	×	×	×	×	×	×	✓	×	×
CX912	×	×	×	×	×	×	×	×	×	✓	✓
CX916	×	✓	×	×	×	×	×	×	×	×	×
CX916L	×	×	×	×	×	×	×	×	×	×	×
CX920	×	×	×	×	×	×	×	✓	×	×	×

E9000 Mezz card supports Switch Module type If special circumstances, the need to support special paired relationship, please refer to the 3MS about IO networking guide explains.



CX110



CX111



CX116



CX210



CX220



CX310



CX311



CX318



CX320



CX611



CX620



CX710



CX912



CX916



CX920

- 3.3 Flexible Card MX517(4*8G FC/10GE)(Without Optical Transceiver)

Used for CX320, output, expandable 4*8G FC or 4*10GE.



MX517

- 3.4 Flexible Card MX527(4*16G FC)(Without Optical Transceiver)

Used for CX320, output, expandable 4*16G FC.



MX527

- **3.5 Make sure the blade is configured with CNA NIC (MZ520/MZ522/MZ510/MZ512)**

When MX517/MX527 expands 8G/16G FC, it must be used with CNA NIC(MZ520/MZ522/MZ510/MZ512).

- **3.6 Activate additional 4-uplink 8G FC port License**

Used for CX210 and CX912, activate additional 4-uplink 8G FC ports License.

- **3.7 Activate additional 4-uplink 16G FC port License**

Used for CX220/CX916, activate additional 4-uplink 16G FC ports License.

- **3.8 FC Switch-Brocade-Full Fabric License(Cascade)(optional)**

CX210/CX220/CX912/CX916 FC module in exchange mode to use E-Port and Brocade brand FC switches connectivity.

- **3.9 FC Switch-Brocade-ISL Trunking License License(optional)**

CX210/CX220/CX912/CX916 FC module uplinks need to use link aggregation support ISL trunking works.

- **3.10 Enterprise Bundle -TRK, FV,EF, FF License**

Optional for CX220/CX916.

TRK(ISL Trunking),FV(Fabric Vision),FF(Full Fabric) ,EF(Extended Fabric).

- **3.11 ===The 1st group Optical Transceiver and High Speed Cable (2X/3X)===**

- **3.11.1 ===GE Electrical Transceiver===**

- **3.11.1.1 Electrical Transceiver-1000BASE-T (RJ45) SFP Electrical Module-Auto Negotiate-100m**

1.Used for CX310/CX311/CX320/CX912/CX920 10GE interface,downspeeding used for GE electric interface;

2.GE electric interface match the RJ45 cable;

3.The quantity match with the GE request from the customer.

- **3.11.1.2 Electrical Transceiver-1000BASE-T (RJ45) SFP Electrical Module-Auto Negotiate-100m**

1.Used for CX310/CX311/CX320/CX912/CX920 10GE interface,downspeeding used for GE electric interface;

2. GE electric interface match the RJ45 cable;
3. The quantity match with the GE request from the customer.

- **3.11.1.3 Electrical Transceiver-1000BASE-T (RJ45) SFP Electrical Module-Auto Negotiate-100m**

1. Used for CX916/CX916L 25G interface, downspeeding used for GE electric interface;
2. GE electric interface match the RJ45 cable;
3. The quantity match with the GE request from the customer.

- **3.11.2 ===10GE Electrical Transceiver===**

- **3.11.2.1 10Electrical Transceiver-10GBASE-T (RJ45) SFP+ Electrical Module-Auto Negotiate-20m**

1. Used for CX320 10GE interface;
2. 10GE electric interface match the RJ45 cable;
3. The quantity match with the GE request from the customer.

- **3.11.3 ===GE Optical Transceiver===**

- **3.11.3.1 Optical Transceiver-eSFP-850nm-2.125Gb/s-LC-Multimode-0.5km**

1. Used for CX110/CX111/CX310/CX311/CX912/CX920 10GE interface, downspeeding used for GE optical interface;
2. The quantity match with the GE request from the customer;
3. Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.3.2 Optical Transceiver-eSFP-1310nm-1.25Gb/s-LC-Singlemode-10km**

1. Used for CX110/CX111/CX310/CX311/CX912/CX920 10GE interface, downspeeding used for GE optical interface;
2. The quantity match with the GE request from the customer;
3. Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.4 ===10GE Optical Transceiver===**

- **3.11.4.1 Optical Transceiver-SFP+-850nm-10Gb/s-LC-Multimode-0.1km**

1. Used for CX110/CX318/CX320/CX916/CX916L/CX920 10GE interface, the quantity match with the 10GE request from the customer;
2. If customer's bandwidth request is not very special, it may configure 4pcs per

configuration(configure 2pcs 10GE Optical Transceivers per switch board, this configuration have redundancy);
3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.4.2 Optical Transceiver-SFP+-850nm-10Gb/s-LC-Multimode-0.3km**

- 1.Used for CX110/CX111/CX310/CX311/CX318/CX320/CX912/CX916/CX916L/CX920 10GE interface, the quantity match with the 10GE request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs 10GE Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.4.3 Optical Transceiver-SFP+-1310nm-10Gb/s-LC-Singlemode-10km**

- 1.Used for CX310/CX311/CX318/CX320/CX912/CX916/CX916L/CX920 10GE interface, the quantity match with the 10GE request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs 10GE Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.5 ===10GE High Speed Cable===**

- **3.11.5.1 1m Passive SFP+ High-speed Cable-include Interface Module**

- 1.Used for CX110/CX111/CX310/CX311/CX318/CX320/CX912/CX916/CX916L/CX920 10GE Switch Module with 10GE optical interfaces is configured to electrically port mode;
- 2.The SFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.5.2 3m Passive SFP+ High-speed Cable-include Interface Module**

- 1.Used for CX110/CX111/CX310/CX311/CX318/CX320/CX912/CX916/CX916L/CX920 10GE Switch Module with 10GE optical interfaces is configured to electrically port mode;

2.The SFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.5.3 5m Passive SFP+ High-speed Cable-include Interface Module**

1.Used for CX110/CX111/CX310/CX311/CX318/CX320/CX912/CX916/CX916L 10GE Switch Module with 10GE optical interfaces is configured to electrically port mode;

2.The SFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.5.4 10m Active SFP+ High-speed Cable-include Interface Module**

1.Used for CX110/CX111/CX310/CX311/CX318/CX320/CX912/CX920 10GE Switch Module with 10GE optical interfaces is configured to electrically port mode;

2.The SFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.6 ===8G FC Optical Transceiver===**

- **3.11.6.1 Optical Transceiver-SFP+-850nm-8.5Gb/s-LC-Multimode-0.15km (General)**

1.Used for CX311/CX915 8G FC interface, the quantity match with the FC request from the customer;

2.Used for CX320 expand MX517 8G FC interface, the quantity match with the FC request from the customer;

3.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);

4.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.6.2 Optical Transceiver-SFP+-1310nm-8.5Gb/s-LC-Singlemode-10km (General)**

1.Used for CX320 expand MX517 8G FC interface, the quantity match with the FC request from the customer;

2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);

3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.6.3 Optical Transceiver-SFP+-850nm-8.5Gb/s-LC-Multimode-0.15km (Used for Brocade)**

- 1.Used for CX210/CX912/CX916 8G/16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.6.4 Optical Transceiver-SFP+-1310nm-8.5Gb/s-LC-Singlemode-10km (Used for Brocade)**

- 1.Used for CX916 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.7 ===16G FC Optical Transceiver===**

- **3.11.7.1 Optical Transceiver-SFP+-850nm-16Gb/s-LC-Multimode-0.1km (Used for Brocade)**

- 1.Used for CX220/CX916 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.7.2 Optical Transceiver-SFP+-850nm-16Gb/s-LC-Multimode-0.1km(General)**

- 1.Used for CX220/CX916 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.7.3 Optical Transceiver-SFP+-1310nm-16Gb/s-LC-Singlemode-10km (Used for Brocade)**

- 1.Used for CX220/CX916 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.7.4 Optical Transceiver-SFP+-1310nm-16Gb/s-LC-Singlemode-25km (Used for Brocade)**

- 1.Used for CX916 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.8 ===25G Optical Transceiver===**

- **3.11.8.1 Optical Transceiver-SFP+-850nm-25Gb/s-SR-Multimode-0.3km**

- 1.Used for CX916/CX916L 25G interface, the quantity match with the 25G request from the customer;
- 2.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **3.11.9 ===25G High Speed Cable===**

- **3.11.9.1 1m Passive SFP28 High-speed Cable-include Interface Module**

1. Used for CX916/CX916L 25G Switch Module with 25G optical interfaces is configured to electrically port mode;
2. The SFP28 cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.9.2 3m Passive SFP28 High-speed Cable-include Interface Module**

1. Used for CX916/CX916L 25G Switch Module with 25G optical interfaces is configured to electrically port mode;

2. The SFP28 cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.9.3 5m Passive SFP28 High-speed Cable-include Interface Module**

1. Used for CX916/CX916L 25G Switch Module with 25G optical interfaces is configured to electrically port mode;
2. The SFP28 cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.10 ===25G Optical Cable===**

- **3.11.10.1 3m-25Gb/s Active Optical Cable(AOC)-SFP28**

1.Used for CX916/CX916L 25G Switch Module with 25G optical interfaces, the quantity match with the 25E request from the customer;
2.Each CX916/CX916L Switch Module supports 8 pcs this optical cable at most.

- **3.11.10.2 5m-25Gb/s Active Optical Cable(AOC)-SFP28**

1.Used for CX916/CX916L 25G Switch Module with 25G optical interfaces, the quantity match with the 25E request from the customer;
2.Each CX916/CX916L Switch Module supports 8 pcs this optical cable at most.

- **3.11.10.3 7m-25Gb/s Active Optical Cable(AOC)-SFP28**

1.Used for CX916/CX916L 25G Switch Module with 25G optical interfaces, the quantity match with the 25E request from the customer;
2.Each CX916/CX916L Switch Module supports 8 pcs this optical cable at most.

- **3.11.10.4 10m-25Gb/s Active Optical Cable(AOC)-SFP28**

1.Used for CX916/CX916L 25G Switch Module with 25G optical interfaces, the quantity match with the 25E request from the customer;
2.Each CX916/CX916L Switch Module supports 8 pcs this optical cable at most.

- **3.11.11 ===40GE Optical Transceiver===**

- **3.11.11.1 Optical Transceiver-QSFP+-850nm-40Gb/s-iSR4 Optical Transceiver-Multimode-0.15km-MPO(Connect to four SFP+ Optical Transceiver)**

1.Used for CX710/CX920/CX916/CX916L 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;
2.Each CX710/CX920 Switch Module supports 8 pcs 40GE optical transceiver at

most;

3.Each CX916/CX916L Switch Module supports 2 pcs 40GE optical transceiver at most.

- **3.11.11.2 Optical Transceiver-QSFP+-850nm-40Gb/s-eSR4 Optical Transceiver-Multimode-0.3km-MPO(Connect to four SFP+ Optical Transceiver)**

1.Used for CX710/CX920/CX916/CX916L 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX710/CX920 Switch Module supports 8 pcs 40GE optical transceiver at most;

3.Each CX916/CX916L Switch Module supports 2 pcs 40GE optical transceiver at most.

- **3.11.11.3 Optical Transceiver-QSFP+-1310nm-40Gb/s-iSM4 Optical Transceiver-Singlemode-1.4km-MPO(Connect to four SFP+ Optical Transceiver)**

1.Used for CX710/CX916/CX916L 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX710/CX920 Switch Module supports 8 pcs 40GE optical transceiver at most;

3.Each CX916/CX916L Switch Module supports 2 pcs 40GE optical transceiver at most.

- **3.11.11.4 Optical Transceiver-QSFP+-1310nm-40Gb/s-eSM4 Optical Transceiver-Singlemode-10km-MPO(Connect to four SFP+ Optical Transceiver)**

1.Used for CX920/CX916/CX916L 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX920 Switch Module supports 8 pcs 40GE optical transceiver at most;

3.Each CX916/CX916L Switch Module supports 2 pcs 40GE optical transceiver at most.

- **3.11.11.5 Optical Transceiver-QSFP+-1310nm-40Gb/s-LR4 Optical Transceiver-Singlemode-10km-LC**

1.Used for CX320/CX920 40GE Switch Module with 40GE optical interfaces, 40GE LC interface optical transceiver, the quantity match with the 40GE request from the customer;

2. Each CX320 Switch Module supports 2 pcs 40GE optical transceiver at most;
3. Each CX920 Switch Module supports 8 pcs 40GE optical transceiver at most.

- **3.11.11.6 Optical Transceiver-QSFP+-850nm-40Gb/s-BD
Optical Transceiver-Multimode-0.1km-LC**

1. Used for CX916/CX920 40GE Switch Module with 40GE optical interfaces, 40GE LC interface optical transceiver, the quantity match with the 40GE request from the customer;
2. Each CX916 Switch Module supports 2 pcs 40GE optical transceiver at most;
3. Each CX920 Switch Module supports 8 pcs 40GE optical transceiver at most.

- **3.11.12 ===40GE High Speed Cable===**

- **3.11.12.1 1m Passive QSFP+ High-speed Cable-include
Interface Module**

1. Used for CX320 40GE Switch Module with 40GE optical interfaces is configured to electrically port mode;
2. The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.12.2 3m Passive QSFP+ High-speed Cable-include
Interface Module**

1. Used for CX320 40GE Switch Module with 40GE optical interfaces is configured to electrically port mode;
2. The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.12.3 5m Passive QSFP+ High-speed Cable-include
Interface Module**

1. Used for CX320 40GE Switch Module with 40GE optical interfaces is configured to electrically port mode;
2. The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.12.4 5m Active QSFP+ High-speed Cable-include
Interface Module**

1. Used for CX320/CX920 40GE Switch Module with 40GE optical interfaces is configured to electrically port mode;
2. The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.12.5 1m Passive QSFP+ High-speed Cable-to 4*SFP+ High-speed Cable**

1.Used for the CX916/CX916L port 40GE optical interfaces dispersion for four 10GE electric interfaces, only 1-2 ports supported.

- **3.11.12.6 3m Passive QSFP+ High-speed Cable-to 4*SFP+ High-speed Cable**

1.Used for the CX920 port 40GE optical interfaces dispersion for four 10GE electric interfaces, only 1-6 ports supported.

- **3.11.12.7 5m Passive QSFP+ High-speed Cable-to 4*SFP+ High-speed Cable**

1.Used for the CX320/CX916/CX916L port 40GE optical interfaces dispersion for four 10GE electric interfaces, only 1-6 ports supported.

- **3.11.13 ===40GE Optical Cable===**

- **3.11.13.1 10m-40Gb/s Active Optical Cable(AOC)**

1.Used for CX916/CX916L/CX920 40GE Switch Module with 40GE optical interfaces, the quantity match with the 40GE request from the customer;
2.Each CX916/CX916L Switch Module supports 2 pcs this optical cable at most;
3.Each CX920 Switch Module supports 8 pcs this optical cable at most.

- **3.11.13.2 15m-40Gb/s Active Optical Cable(AOC)**

1.Used for CX320/CX916/CX916L/CX920 40GE Switch Module with 40GE optical interfaces, the quantity match with the 40GE request from the customer;
2.Each CX320/CX916/CX916L Switch Module supports 2 pcs this optical cable at most;
3.Each CX920 Switch Module supports 8 pcs this optical cable at most.

- **3.11.13.3 5m-Optical Cable Assembly -40GE QSFP+ to 4*10GE SFP Optical Cable-Multimode**

1.Used for the CX310 / CX311 four 10GE optical interfaces converge for a 40GE optical interfaces and 40GE optical interfaces docking optical interfaces switch scenes, each CX310/CX311 Switch Module supports 4 pcs this optical cable at most;
2.Used for the CX710/CX920 port 40GE optical interfaces dispersion for four 10GE optical interfaces and 10GE optical interfaces docking optical interfaces switch scenes, only 1-6 ports supported.

- **3.11.13.4 15m-Optical Cable Assembly-40GE QSFP+ to 4*10GE SFP Optical Cable-Multimode**

- 1.Used for the CX310 / CX311 four 10GE optical interfaces converge for a 40GE optical interfaces and 40GE optical interfaces docking optical interfaces switch scenes, each CX310/CX311 Switch Module supports 4 pcs this optical cable at most;
- 2.Used for the CX710/CX920 port 40GE optical interfaces dispersion for four 10GE optical interfaces and 10GE optical interfaces docking optical interfaces switch scenes, only 1-6 ports supported.

- **3.11.13.5 15m-Optical Cable Assembly-MPO/PC-MPO/PC-Multimode**

- 1.Used for CX710/CX920 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;
- 2.Each CX710/CX920 Switch Module supports 8 pcs this optical cable at most.

- **3.11.14 ===IB High-speed Cable===**

- **3.11.14.1 1m IB FDR High-speed Passive Cable(DAC)-Include Interface Module**

- 1.Used for CX611 switch module with IB 40G QDR cable or IB 56G FDR cable, the length is 1m;
- 2.Configure 0-18pcs per CX611 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **3.11.14.2 3m IB FDR High-speed Passive Cable(DAC)-Include Interface Module**

- 1.Used for CX611 switch module with IB 40G QDR cable or IB 56G FDR cable, the length is 3m;
- 2.Configure 0-18pcs per CX611 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

▪ **3.11.14.3 5m IB FDR High-speed Cable(AOC)-Include 56Gb/s QSFP+ Optical Module**

- 1.Used for CX611 switch module with IB 40G QDR cable or IB 56G FDR cable, include the QSFP+ Optical Transceivers and fiber, the length is 5m;
- 2.Configure 0-18pcs per CX611 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the optical transceiver and optical fiber, does not need to configure the optical fiber additionally.

▪ **3.11.14.4 10m IB FDR High-speed Cable(AOC)-Include 56Gb/s QSFP+ Optical Module**

- 1.Used for CX611 switch module with IB 40G QDR cable or IB 56G FDR cable, include the QSFP+ Optical Transceivers and fiber, the length is 10m;
- 2.Configure 0-18pcs per CX611 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the optical transceiver and optical fiber, does not need to configure the optical fiber additionally.

4. ===The 2nd group Switch Module (1E/4E)===

○ **4.1 2nd group Switch Module (1E/4E) type**

- 1.The 2nd group Switch Module (1E/4E) corresponding connector the MEZZ2/4;
- 2.The CX110/CX111 Switch Module needs match with MZ110/MZ111 Mezz Card;CX110/CX111 upstream(output) supports 4*10GE + 12*GE electric interface (RJ45), downstream(through the backplane connect the blade) supports 32*GE;
- 3.The CX116 Switch Module needs match with MZ110 Mezz Card;
- 4.The CX210/CX220 Switch Module needs match with MZ220 Mezz Card; CX210 FC plane upstream(output) supports 8*8G FC, downstream(through the backplane connect the blade) supports 16*8G FC; CX220 FC plane upstream(output) supports 8*16G FC, downstream(through the backplane connect the blade) supports 16*16G FC;
- 5.The CX310 Switch Module needs match with MZ310/MZ312/MZ510/MZ512 Mezz Card; CX310 upstream(output) supports 16*10GE, downstream(through the backplane connect the blade) supports 32*10GE;
- 6.The CX318 Switch Module needs match with MZ310/MZ312 Mezz Card;

7.The CX320 Switch Module needs match with MZ310/MZ312/MZ510/MZ512 Mezz Card; CX320 upstream(output) supports 8*10GE + 2*10GE, downstream(through the backplane connect the blade) supports 32*10GE; Optional flexible card MX517, upstream(output) extended supports 4*8G FC or 4*10GE;

8.The CX912 Switch Module needs match with MZ912 Mezz Card; 10GE plane upstream(output) supports 16*10GE, downstream(through the backplane connect the blade) supports 32*10GE; FC plane upstream(output) supports 8*8G FC, downstream(through the backplane connect the blade) supports 16*8G FC;

9.The CX920 Switch Module needs match with MZ710 Mezz Card; 40GE plane upstream(output) supports 8*40GE, downstream(through the backplane connect the blade) supports 16*40GE; 10GE plane upstream(output) supports 8*10GE, downstream(through the backplane connect the blade) supports 16*10GE;

10.The CX611 Switch Module needs match with MZ611/MZ612 Mezz Card;CX611 upstream(output) supports 18*FDR/QDR, downstream(through the backplane connect the blade) supports 16*FDR/QDR; The interface of CX611 can be adaptive FDR/QDR rate;

11.The CX620 Switch Module needs match with MZ620 Mezz Card;CX620 upstream(output) supports 18*EDR/FDR, downstream(through the backplane connect the blade) supports 16*EDR/FDR; The interface of CX620 can be adaptive EDR/FDR rate;

12.The CX710 Switch Module needs match with MZ310/MZ312/MZ510/MZ512/MZ710 Mezz Card; CX710 40GE plane upstream(output) supports 8*40GE, downstream(through the backplane connect the blade) supports 16*40GE or 32*10GE;

13.The CX820 Switch Module needs match with MZ821 Mezz Card; CX820 100G plane upstream(output) supports 20*100G, downstream(through the backplane connect the blade) supports 16*100G OPA.

MeZZ Switch	MZ110 MZ111	MZ220	MZ310 MZ312	MZ510 MZ512	MZ520 MZ522	MZ611 MZ612	MZ620	MZ710	MZ821	MZ910	MZ912
CX110/CX111	✓	×	×	×	×	×	×	×	×	×	×
CX116	✓	×	×	×	×	×	×	×	×	×	×
CX210	×	✓	×	×	×	×	×	×	×	×	×
CX220	×	✓	×	×	×	×	×	×	×	×	×
CX310	×	×	✓	✓	✓	×	×	×	×	×	×
CX311	×	×	×	✓	✓	×	×	×	×	×	×
CX318	×	×	✓	✓	✓	×	×	×	×	×	×
CX320	×	×	✓	✓	✓	×	×	×	×	×	×
CX611	×	×	×	×	×	✓	×	×	×	×	×
CX620	×	×	×	×	×	×	✓	×	×	×	×
CX710	×	×	✓	✓	✓	×	×	✓	×	×	×
CX820	×	×	×	×	×	×	×	×	✓	×	×
CX912	×	×	×	×	×	×	×	×	×	✓	✓
CX916	×	✓	×	×	×	×	×	×	×	×	×
CX916L	×	×	×	×	×	×	×	×	×	×	×
CX920	×	×	×	×	×	×	×	✓	×	×	×

E9000 Mezz card supports Switch Module type If special circumstances, the need to support special paired relationship, please refer to the 3MS about IO networking guide explains.



CX110



CX111



CX116



CX210



CX220



CX310



CX311



CX318



CX320



CX611



CX620



CX710



CX820



CX912



CX920

○ 4.2 Number of the 2nd group Switch Modules

- 1.The 2nd group Switch Module (1E/4E) corresponding connector the MEZZ2/4;
- 2.The CX110/CX111 Switch Module needs match with MZ110/MZ111 Mezz Card;CX110/CX111 upstream(output) supports 4*10GE + 12*GE electric interface (RJ45), downstream(through the backplane connect the blade) supports 32*GE;
- 3.The CX116 Switch Module needs match with MZ110 Mezz Card;
- 4.The CX210/CX220 Switch Module needs match with MZ220 Mezz Card; CX210 FC plane upstream(output) supports 8*8G FC, downstream(through the backplane connect the blade) supports 16*8G FC; CX220 FC plane upstream(output) supports 8*16G FC, downstream(through the backplane connect the blade) supports 16*16G FC;
- 5.The CX310 Switch Module needs match with MZ310/MZ312/MZ510/MZ512 Mezz Card; CX310 upstream(output) supports 16*10GE, downstream(through the backplane connect the blade) supports 32*10GE;
- 6.The CX318 Switch Module needs match with MZ310/MZ312 Mezz Card;
- 7.The CX320 Switch Module needs match with MZ310/MZ312/MZ510/MZ512 Mezz Card; CX320 upstream(output) supports 8*10GE + 2*10GE, downstream(through the backplane connect the blade) supports 32*10GE; Optional flexible card MX517, upstream(output) extended supports 4*8G FC or 4*10GE;
- 8.The CX912 Switch Module needs match with MZ912 Mezz Card; 10GE plane upstream(output) supports 16*10GE, downstream(through the backplane connect the blade) supports 32*10GE; FC plane upstream(output) supports 8*8G FC, downstream(through the backplane connect the blade) supports 16*8G FC;
- 9.The CX920 Switch Module needs match with MZ710 Mezz Card; 40GE plane upstream(output) supports 8*40GE, downstream(through the backplane connect the blade) supports 16*40GE; 10GE plane upstream(output) supports 8*10GE, downstream(through the backplane connect the blade) supports 16*10GE;
- 10.The CX611 Switch Module needs match with MZ611/MZ612 Mezz Card;CX611 upstream(output) supports 18*FDR/QDR, downstream(through the backplane connect the blade) supports 16*FDR/QDR; The interface of CX611 can be adaptive FDR/QDR rate;

11.The CX620 Switch Module needs match with MZ620 Mezz Card;CX620 upstream(output) supports 18*EDR/FDR, downstream(through the backplane connect the blade) supports 16*EDR/FDR; The interface of CX620 can be adaptive EDR/FDR rate;

12.The CX710 Switch Module needs match with MZ310/MZ312/MZ510/MZ512/MZ710 Mezz Card; CX710 40GE plane upstream(output) supports 8*40GE, downstream(through the backplane connect the blade) supports 16*40GE or 32*10GE;

13.The CX820 Switch Module needs match with MZ821 Mezz Card; CX820 100G plane upstream(output) supports 20*100G, downstream(through the backplane connect the blade) supports 16*100G OPA.

MeZZ Switch	MZ110 MZ111	MZ220	MZ310 MZ312	MZ510 MZ512	MZ520 MZ522	MZ611 MZ612	MZ620	MZ710	MZ821	MZ910	MZ912
CX110/CX111	✓	×	×	×	×	×	×	×	×	×	×
CX116	✓	×	×	×	×	×	×	×	×	×	×
CX210	×	✓	×	×	×	×	×	×	×	×	×
CX220	×	✓	×	×	×	×	×	×	×	×	×
CX310	×	×	✓	✓	✓	×	×	×	×	×	×
CX311	×	×	×	✓	✓	×	×	×	×	×	×
CX318	×	×	✓	✓	✓	×	×	×	×	×	×
CX320	×	×	✓	✓	✓	×	×	×	×	×	×
CX611	×	×	×	×	×	✓	×	×	×	×	×
CX620	×	×	×	×	×	×	✓	×	×	×	×
CX710	×	×	✓	✓	✓	×	×	✓	×	×	×
CX820	×	×	×	×	×	×	×	×	✓	×	×
CX912	×	×	×	×	×	×	×	×	×	✓	✓
CX916	×	✓	×	×	×	×	×	×	×	×	×
CX916L	×	×	×	×	×	×	×	×	×	×	×
CX920	×	×	×	×	×	×	×	✓	×	×	×

E9000 Mezz card supports Switch Module type If special circumstances, the need to support special paired relationship, please refer to the 3MS about IO networking guide explains.



CX110



CX11



CX116



CX210



CX220



CX310



CX311



CX318



CX320



CX611



CX620



CX710



CX912



CX920

- 4.3 Flexible Card MX517(4*8G FC/10GE)(Without Optical Transceiver)

Used for CX320, output, expandable 4*8G FC or 4*10GE.



MX517

- 4.4 Flexible Card MX527(4*16G FC)(Without Optical Transceiver)

Used for CX320, output, expandable 4*16G FC.



MX527

- **4.5 Make sure the blade is configured with CNA NIC (MZ520/MZ522/MZ510/MZ512)**

When MX517/MX527 expands 8G/16G FC, it must be used with CNA NIC(MZ520/MZ522/MZ510/MZ512).

- **4.6 Activate additional 4-uplink 8G FC port License**

Used for CX210 and CX912, activate additional 4-uplink 8G FC ports License.

- **4.7 Activate additional 4-uplink 16G FC port License**

Used for CX220, activate additional 4-uplink 16G FC ports License.

- **4.8 FC Switch-Brocade-Full Fabric License(Cascade)(optional)**

CX210/CX220/CX912 FC module in exchange mode to use E-Port and Brocade brand FC switches connectivity.

- **4.9 FC Switch-Brocade-ISL Trunking License License(optional)**

CX210/CX220/CX912 FC module uplinks need to use link aggregation support ISL trunking works.

- **4.10 Enterprise Bundle -TRK, FV,EF, FF License**

Optional for CX220/CX916.

TRK(ISL Trunking),FV(Fabric Vision),FF(Full Fabric) ,EF(Extended Fabric).

- **4.11 ===The 2nd group Optical Transceiver and High Speed Cable (1E/4E)===**

- **4.11.1 ===GE Electrical Transceiver===**

- **4.11.1.1 Electrical Transceiver-1000BASE-T (RJ45) SFP Electrical Module-Auto Negotiate-100m**

1.Used for CX310/CX311/CX320/CX912/CX920 10GE interface,downspeeding used for GE electric interface;

2.GE electric interface match the RJ45 cable;

3.The quantity match with the GE request from the customer.

- **4.11.1.2 Electrical Transceiver-1000BASE-T (RJ45) SFP Electrical Module-Auto Negotiate-100m**

1.Used for CX310/CX311/CX320/CX912/CX920 10GE interface,downspeeding used for GE electric interface;

2. GE electric interface match the RJ45 cable;
3. The quantity match with the GE request from the customer.

- **4.11.2 ===GE Optical Transceiver===**

- **4.11.2.1 Optical Transceiver-eSFP-850nm-2.125Gb/s-LC-Multimode-0.5km**

1. Used for CX110/CX111/CX310/CX311/CX320/CX912/CX915/CX920 10GE interface, downspeeding used for GE optical interface;
2. The quantity match with the GE request from the customer;
3. Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.2.2 Optical Transceiver-eSFP-1310nm-1.25Gb/s-LC-Singlemode-10km**

1. Used for CX110/CX111/CX310/CX311/CX912/CX915/CX920 10GE interface, downspeeding used for GE optical interface;
2. The quantity match with the GE request from the customer;
3. Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.3 ===10GE Optical Transceiver===**

- **4.11.3.1 Optical Transceiver-SFP+-850nm-10Gb/s-LC-Multimode-0.1km**

1. Used for CX110/CX318 10GE interface, the quantity match with the 10GE request from the customer;
2. If customer's bandwidth request is not very special, it may configure 4pcs per configuration (configure 2pcs 10GE Optical Transceivers per switch board, this configuration have redundancy);
3. Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.3.2 Optical Transceiver-SFP+-850nm-10Gb/s-LC-Multimode-0.3km**

1. Used for CX110/CX111/CX310/CX311/CX318/CX320/CX912/CX915/CX920 10GE interface, the quantity match with the 10GE request from the customer;
2. If customer's bandwidth request is not very special, it may configure 4pcs per configuration (configure 2pcs 10GE Optical Transceivers per switch board, this configuration have redundancy);
3. Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.3.3 Optical Transceiver-SFP+-1310nm-10Gb/s-LC-Singlemode-10km**

- 1.Used for CX310/CX311/CX318/CX320/CX912/CX920 10GE interface, the quantity match with the 10GE request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs 10GE Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.4 ===10GE High Speed Cable===**

- **4.11.4.1 1m Passive SFP+ High-speed Cable-include Interface Module**

- 1.Used for CX110/CX111/CX310/CX311/CX318/CX912/CX915/CX920 10GE Switch Module with 10GE optical interfaces is configured to electrically port mode;
- 2.The SFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.4.2 3m Passive SFP+ High-speed Cable-include Interface Module**

- 1.Used for CX110/CX111/CX310/CX311/CX318/CX912/CX915/CX920 10GE Switch Module with 10GE optical interfaces is configured to electrically port mode;
- 2.The SFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.4.3 5m Passive SFP+ High-speed Cable-include Interface Module**

- 1.Used for CX110/CX111/CX310/CX311/CX318/CX912/CX915 10GE Switch Module with 10GE optical interfaces is configured to electrically port mode;
- 2.The SFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.4.4 10m Active SFP+ High-speed Cable-include Interface Module**

- 1.Used for CX110/CX111/CX310/CX311/CX318/CX320/CX912/CX915/CX920 10GE Switch Module with 10GE optical interfaces is configured to electrically port mode;
- 2.The SFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.5 ===8G FC Optical Transceiver===**

- **4.11.5.1 Optical Transceiver-SFP+-850nm-8.5Gb/s-LC-Multimode-0.15km (General)**

- 1.Used for CX311/CX915 8G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.5.2 Optical Transceiver-SFP+-1310nm-8.5Gb/s-LC-Singlemode-10km (General)**

- 1.Used for CX320 expand MX517 8G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.5.3 Optical Transceiver-SFP+-850nm-8.5Gb/s-LC-Multimode-0.15km (Used for Brocade)**

- 1.Used for CX210/CX912 8G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.5.4 Optical Transceiver-SFP+-1310nm-8.5Gb/s-LC-Singlemode-10km (Used for Brocade)**

- 1.Used for CX220 8G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.6 ===16G FC Optical Transceiver===**

- **4.11.6.1 Optical Transceiver-SFP+-850nm-16Gb/s-LC-Multimode-0.1km (Used for Brocade)**

- 1.Used for CX220 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.6.2 Optical Transceiver-SFP+-850nm-16Gb/s-LC-Multimode-0.1km (General)**

- 1.Used for CX220 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.6.3 Optical Transceiver-SFP+-1310nm-16Gb/s-LC-Singlemode-10km (Used for Brocade)**

- 1.Used for CX220 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.6.4 Optical Transceiver-SFP+-1310nm-16Gb/s-LC-Singlemode-25km (Used for Brocade)**

- 1.Used for CX220 16G FC interface, the quantity match with the FC request from the customer;
- 2.If customer's bandwidth request is not very special, it may configure 4pcs per configuration(configure 2pcs FC Optical Transceivers per switch board, this configuration have redundancy);
- 3.Configure the optical transceiver, if needs optical fiber, please add the accessory product module to select optical fiber base on customer request.

- **4.11.7 ===40GE Optical Transceiver===**

- **4.11.7.1 Optical Transceiver-QSFP+-850nm-40Gb/s-iSR4
Optical Transceiver-Multimode-0.15km-MPO(Connect to
four SFP+ Optical Transceiver)**

1.Used for CX920/CX320 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX920 Switch Module supports 8 pcs 40GE optical transceiver at most;

3.Each CX320 Switch Module supports 2 pcs 40GE optical transceiver at most.

- **4.11.7.2 Optical Transceiver-QSFP+-850nm-40Gb/s-eSR4
Optical Transceiver-Multimode-0.3km-MPO(Connect to
four SFP+ Optical Transceiver)**

1.Used for CX710/CX920 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX710/CX920 Switch Module supports 8 pcs 40GE optical transceiver at most.

- **4.11.7.3 Optical Transceiver-QSFP+-1310nm-40Gb/s-
iSM4 Optical Transceiver-Singlemode-1.4km-
MPO(Connect to four SFP+ Optical Transceiver)**

1.Used for CX710 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX710 Switch Module supports 8 pcs 40GE optical transceiver at most.

- **4.11.7.4 Optical Transceiver-QSFP+-1310nm-40Gb/s-
eSM4 Optical Transceiver-Singlemode-10km-
MPO(Connect to four SFP+ Optical Transceiver)**

1.Used for CX920 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX920 Switch Module supports 8 pcs 40GE optical transceiver at most.

- **4.11.7.5 Optical Transceiver-QSFP+-1310nm-40Gb/s-LR4
Optical Transceiver-Singlemode-10km-LC**

1.Used for CX320 40GE Switch Module with 40GE optical interfaces, 40GE LC interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX320 Switch Module supports 2 pcs 40GE optical transceiver at most.

- **4.11.7.6 Optical Transceiver-QSFP+-850nm-40Gb/s-BD
Optical Transceiver-Multimode-0.1km-LC**

- 1.Used for CX916/CX920 40GE Switch Module with 40GE optical interfaces, 40GE LC interface optical transceiver, the quantity match with the 40GE request from the customer;
- 2.Each CX916 Switch Module supports 2 pcs 40GE optical transceiver at most;
- 3.Each CX920 Switch Module supports 8 pcs 40GE optical transceiver at most.

- **4.11.8 ===40GE High Speed Cable===**

- **4.11.8.1 1m Passive QSFP+ High-speed Cable-include
Interface Module**

- 1.Used for CX320 40GE Switch Module with 40GE optical interfaces is configured to electrically port mode;
- 2.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.8.2 3m Passive QSFP+ High-speed Cable-include
Interface Module**

- 1.Used for CX320 40GE Switch Module with 40GE optical interfaces is configured to electrically port mode;
- 2.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.8.3 5m Passive QSFP+ High-speed Cable-include
Interface Module**

- 1.Used for CX320 40GE Switch Module with 40GE optical interfaces is configured to electrically port mode;
- 2.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.8.4 5m Active QSFP+ High-speed Cable-include
Interface Module**

- 1.Used for CX320/920 40GE Switch Module with 40GE optical interfaces is configured to electrically port mode;
- 2.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.8.5 3m Passive QSFP+ High-speed Cable-to 4*SFP+
High-speed Cable**

1.Used for the CX920 port 40GE optical interfaces dispersion for four 10GE electric interfaces, only 1-6 ports supported.

- **4.11.8.6 5m Passive QSFP+ High-speed Cable-to 4*SFP+ High-speed Cable**

1.Used for the CX320/CX916 port 40GE optical interfaces dispersion for four 10GE electric interfaces, only 1-6 ports supported.

- **4.11.9 ===40GE Optical Cable===**

- **4.11.9.1 10m-40Gb/s Active Optical Cable(AOC)**

1.Used for CX710 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX710 Switch Module supports 8 pcs this optical cable at most.

- **4.11.9.2 15m-40Gb/s Active Optical Cable(AOC)**

1.Used for CX320 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;

2.Each CX320 Switch Module supports 2 pcs this optical cable at most.

- **4.11.9.3 5m-Optical Cable Assembly -40GE QSFP+ to 4*10GE SFP Optical Cable-Multimode**

1.Used for the CX310 / CX311 four 10GE optical interfaces converge for a 40GE optical interfaces and 40GE optical interfaces docking optical interfaces switch scenes, each CX310/CX311 Switch Module supports 4 pcs this optical cable at most;

2.Used for the CX710 port 40GE optical interfaces dispersion for four 10GE optical interfaces and 10GE optical interfaces docking optical interfaces switch scenes, only 1-6 ports supported.

- **4.11.9.4 15m-Optical Cable Assembly-40GE QSFP+ to 4*10GE SFPOptical Cable-Multimode**

1.Used for the CX310 / CX311 four 10GE optical interfaces converge for a 40GE optical interfaces and 40GE optical interfaces docking optical interfaces switch scenes, each CX310/CX311 Switch Module supports 4 pcs this optical cable at most;

2.Used for the CX710 port 40GE optical interfaces dispersion for four 10GE optical interfaces and 10GE optical interfaces docking optical interfaces switch scenes, only 1-6 ports supported.

- **4.11.9.5 15m-Optical Cable Assembly-MPO/PC-MPO/PC-Multimode**

- 1.Used for CX710 40GE Switch Module with 40GE optical interfaces, 40GE MPO interface optical transceiver, the quantity match with the 40GE request from the customer;
- 2.Each CX710 Switch Module supports 8 pcs this optical cable at most.

- 4.11.10 **===OPA High-speed Cable===**

- 4.11.10.1 **1m Omni-Path 100Gbps QSFP28 High-speed Passive Cable-Include Interface Module**

- 1.Used for CX820 100G Switch Module with 100G optical interfaces, the quantity match with the 100G request from the customer;
- 2.Each CX820 Switch Module supports 20 pcs this cable at most.

- 4.11.10.2 **2m Omni-Path 100Gbps QSFP28 High-speed Passive Cable-Include Interface Module**

- 1.Used for CX820 100G Switch Module with 100G optical interfaces, the quantity match with the 100G request from the customer;
- 2.Each CX820 Switch Module supports 20 pcs this cable at most.

- 4.11.10.3 **3m Omni-Path 100Gbps QSFP28 High-speed Passive Cable-Include Interface Module**

- 1.Used for CX820 100G Switch Module with 100G optical interfaces, the quantity match with the 100G request from the customer;
- 2.Each CX820 Switch Module supports 20 pcs this cable at most.

- 4.11.11 **===IB High-speed Cable===**

- 4.11.11.1 **1m IB FDR High-speed Passive Cable(DAC)- Include Interface Module**

- 1.Used for CX611 switch module with IB 40G QDR cable or IB 56G FDR cable, the length is 1m;
- 2.Configure 0-18pcs per CX611 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- 4.11.11.2 **3m IB FDR High-speed Passive Cable(DAC)- Include Interface Module**

- 1.Used for CX611 switch module with IB 40G QDR cable or IB 56G FDR cable, the length is 3m;
- 2.Configure 0-18pcs per CX611 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

▪ **4.11.11.3 5m IB FDR High-speed Cable(AOC)-Include 56Gb/s QSFP+ Optical Module**

- 1.Used for CX611 switch module with IB 40G QDR cable or IB 56G FDR cable, include the QSFP+ Optical Transceivers and fiber, the length is 5m;
- 2.Configure 0-18pcs per CX611 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the optical transceiver and optical fiber, does not need to configure the optical fiber additionally.

▪ **4.11.11.4 10m IB FDR High-speed Cable(AOC)-Include 56Gb/s QSFP+ Optical Module**

- 1.Used for CX611 switch module with IB 40G QDR cable or IB 56G FDR cable, include the QSFP+ Optical Transceivers and fiber, the length is 10m;
- 2.Configure 0-18pcs per CX611 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the optical transceiver and optical fiber, does not need to configure the optical fiber additionally.

▪ **4.11.11.5 1m IB EDR High-speed Passive Cable(DAC)-Include Interface Module**

- 1.Used for CX611/CX620/CX621 switch module with IB 100G EDR cable, the length is 1m;
- 2.Configure 0-18pcs per CX611/CX620/CX621 switch module;

- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.11.6 3m IB EDR High-speed Passive Cable(DAC)-
Include Interface Module**

- 1.Used for CX611/CX620/CX621 switch module with IB 100G EDR cable, the length is 3m;
- 2.Configure 0-18pcs per CX611/CX620/CX621 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.11.7 5m IB EDR Active Optical Cable(AOC)-QSFP28**

- 1.Used for CX620/CX621 switch module with IB 100G EDR cable, the length is 1m;
- 2.Configure 0-18pcs per CX620/CX621 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

- **4.11.11.8 10m IB EDR Active Optical Cable(AOC)-QSFP28**

- 1.Used for CX620/CX621 switch module with IB 100G EDR cable, the length is 1m;
- 2.Configure 0-18pcs per CX620/CX621 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

▪ 4.11.11.9 20m IB EDR Active Optical Cable(AOC)-QSFP28

- 1.Used for CX620/CX621 switch module with IB 100G EDR cable, the length is 1m;
- 2.Configure 0-18pcs per CX620/CX621 switch module;
- 3.The different length is different price, please configure after getting the length request from customer;
- 4.Configure the number depends on customer demand docking IB, please contact customer explicitly (the cable is very expensive, make sure clearly demand);
- 5.If need other length, please contact the RD members;
- 6.The QSFP+ cable including the Interface Module, does not need to configure the optical transceiver and optical fiber additionally.

5. **===Accessory===**

○ 5.1 **External DVD-RW**

No internal DVD drive, Please select external drive.

○ 5.2 **Guide Rail**

- 1.If the host put into the cabinet, please select it;
- 2.Extension Guide Rail biggest use length is 680mm~920mm(corresponding column spacing is 689~929mm), uses in the 750mm-920mm situation(corresponding column spacing is 689~929mm), rail track below need at least keeps the 1U gap.



Guide Rail: 4U

Static Rail Kit(21240817)

○ 5.3 **IT Equipment High-Density Cable(Expand interfaces : 3pcs USB, 1pcs RJ45, 1pcs VGA interface)**

Already 2 with Chassis, if you need more, should configure here