NE20E-S16A Configuration Help

1. **New site or Expansion**

   This parameter is used for the NE20E-S to choose to purchase a new chassis or the old chassis only expand LPU or upgrade software. If you want to purchase a new NE20E-S , select "New site". If the software upgrade of the different version or the old chassis only expand LPU, select "Expansion".

2. **Please select the version**

   Please confirm the corresponding iManager version is correct when you select the version:
   V800R008: the corresponding iManager U2000 version is V200R016C50 or later; eSight version is V300R006C00 or later.
   V800R009: the corresponding iManager U2000 version is V200R017C50 or later.
   V800R010: the corresponding iManager U2000 version is V200R018C50 or later.
   V800R011: the corresponding iManager U2000 version is V200R018C60 or later.

3. **Please select the version that after upgrading**

   Please confirm the corresponding iManager version is correct when you select the version:
   V800R008: the corresponding iManager U2000 version is V200R016C50 or later; eSight version is V300R006C00 or later.
   V800R009: the corresponding iManager U2000 version is V200R017C50 or later.
   V800R010: the corresponding iManager U2000 version is V200R018C50 or later.
   V800R011: the corresponding iManager U2000 version is V200R018C60 or later.

4. **Please input slots of Expansion(Separate multiple slots with a comma,example:1,2,3)**

   Please input slots of Expansion(Separate multiple slots with a comma,example:1,2,3)

5. **Need the PPPoE/IPoE function or not(just for filtering card and license)**

   This parameter is used to filter PPPoE/IPoE function card and license:
   If Yes is selected, the license(per chassis) parameters that support PPPoE/IPoE will be displayed, and the board that don't support PPPoE/IPoE will be filtered out and hidden.
   If No is selected, the license parameters that support PPPoE/IPoE will be filtered out and hidden.

6. **Need Basic Software CD or not**

The basic software has been loaded on the equipment and can be downloaded from http://support.huawei.com.The CD is not delivered by default. If the CD is required by customer, please choose 'YES'.

7. **===Software Subscription and Support Service===**

   - 7.1 **Please Select Quote Scene**

1. First signed: when the customer firstly purchases the software, the license and the SnS must be bought together at the same time; there are two choices for the SnS, 1 year or 3 years or 5 years; for the first sign, the SnS must be bought at least 1 year.

2. Expansion: if the customer purchase the new software at the basis of the existing licenses in the current network, the new license and the SnS must be bought together at the same time; the available time of the expanded new license should be equal to the rest time of the existing licenses in the current network, which means both of them will expire at the same time; If the available time of the expanded new license is less than 1 year or 3 years or 5 years , there will be business discounted.

3.Renew: Only the SnS is necessary to be bought, however, all the license in current network need to be renewed. Period for renew can be chose as 1 year or 3 years or 5 years.

   - 7.2 **Annual Fee Start Rule**

Set absolute input time in the configurator as Start Time

   - 7.3 **Annual Fee Start Date**

Start date should not be later than 90 days after today.

8. **===Basic Configuration===**

   - 8.1 **Please select the Portfolio Quotation of Basic Configuration**

1. The basic configuration includes Chassis, 2*MPUE1,2*Power, Power cord/PGND cable, without NSP, Software Charge or Document.
2. The DC basic configuration includes DC Power cord (3m) and PGND cable (3m). The AC basic configuration includes PGND cable (3m).

   - 8.2 **Please select the type of NSP**

1. It can be configured 2 PCS at most.
2. If configured NSP-D, the red sub-slot (No.5-No.14) cannot support low speed card.

20G	20G	10G	10G	20G	20G

20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

Network Service Processor(NSP-A)

Network Service Processor(NSP-B)

- 8.3 **Please select the quantity of NSP**

Double NSPs are suggested for 1:1 backup.

- 8.4 **Please select the type of NSP after upgrading**

1. It can be configured 2 PCS at most.
2. If configured NSP-D, the red sub-slot (No.5-No.14) can not support low speed card.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	

2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

○ 8.5 **Need DC PDU or not**

1.Including DC PDU and PGND cable, without power cable(the length of power cable is calculated automatically);

2.The PDU support 4 chassises. The quantity of power cable which connect the PDU to PDF(Power Distribution Frame) is calculated with total chassises by default.

○ 8.6 **Please select the type of C13 power cable**

1.PDU:Power Distribution Unit, the special main jack for the rack.

2.If the main jack in the rack is C13SF(as shown in figure), please select ""C13 PDU"" in the option ""Select the type of C13 power cable"", otherwise select ""ordinarily C13"".

3.A matching AC power cable is provided only when the AC power module is configured (or the device has the AC power module).

C13 PDU SF

Power Socket

PDU Cable C13-C14

- 8.7 **Please select the type of C13 AC power cable**

Please select the right type of AC power cable according to the actual situation.

BS546

C13Argentina

C13Australia

C13Brazil

C13Britain

C13China

Denmark C13-C13

C13Europe

South Africa

C13India

C13Italy

C13Japan

Korea C13-C13

C13North America

C13Switzerland

C13UKS(angled)

- 8.8 **Please select the type of C13 PDU power cable**

1.The recommended value is the power cable type allowed in the specific country. Do not change this value unless a specific power cable type is required.
2.A matching AC power cable is provided only when the AC power module is configured (or the device has the AC power module).

- 8.9 **Please select the type of power before upgrading**

NSP-D MUST be used with 2400W power module, but before V8R10 the AC bundle is bound with 1600W power, so MUST replace AC power module when upgrade to NSP-D for the existing AC equipment.

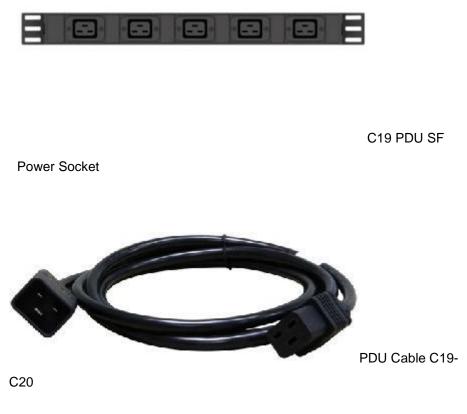- 8.10 **The quantity of AC Power PAC2400D5303-CL**

NSP-D MUST be used with 2400W power module, but before V8R10 the AC bundle is bound with 1600W power, so MUST replace AC power module when upgrade to NSP-D for the existing AC equipment.

- 8.11 **Please select the type of C19 power cable**

1.PDU:Power Distribution Unit, the special main jack for the rack.

2.If the main jack is C19SF(as shown in figure), please select ""C19 PDU"" in the option ""Select the type of C19 power cable"", otherwise select ""ordinarily C19"".

3.A matching AC power cable is provided only when the AC power module is configured (or the device has the AC power module).

C19 PDU SF

Power Socket

PDU Cable C19-C20

- o 8.12 **Please select the type of C19 AC power cable**

Please select the right type of AC power cable according to the actual situation.
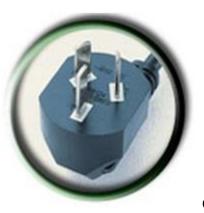
Australia

Brazil

Britain

BS546

China

Europe

South Africa

Japan

North America

Switzerland

- 8.13 **Please select the type of C19 PDU power cable**

1.The recommended value is the power cable type allowed in the specific country. Do not change this value unless a specific power cable type is required.
2.A matching AC power cable is provided only when the AC power module is configured (or the device has the AC power module).

- 8.14 **Total ports of all card**

Each chassis can support 108 ports for NSP-50 at most, while 118 ports for NSP-A/NSP-B/NSP-C/NSP-D. Expansion, the max number of ports for each chassis needs to include the existing network.

9. **===Interface Card===**

- 9.1 **Please read the help about old version DB upgrading**

In the old version data package, the cards configuration are not designed by slot.so when you configure project with old version data package and upgrade it, the cards will be lost. Please configure the cards anew.

- 9.2 **(Slot 1) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.
2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G

20G	20G	20G	20G	20G	20G
Slot1:20G	20G	Slot1:10G	10G	Slot1:20G	20G

o 9.3 **(Slot 2) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	Slot2:20G	10G	Slot2:10G	20G	Slot2:20G

o 9.4 **(Slot 3) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
Slot3:20G	20G	Slot3:20G	20G	Slot3:20G	20G
20G	20G	10G	10G	20G	20G

o 9.5 **(Slot 4) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	Slot4:20G	20G	Slot4:20G	20G	Slot4:20G
20G	20G	10G	10G	20G	20G

- 9.6 **(Slot 5) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
Slot5:20G	20G	Slot5:20G	20G	Slot5:100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.7 **(Slot 6) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G

2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	Slot6:20G	20G	Slot6:20G	100G	Slot6:100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.8 **(Slot 7) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
Slot7:2G	2G	Slot7:40G	40G	Slot7:100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.9 **(Slot 8) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	Slot8:2G	40G	Slot8:40G	100G	Slot8:100G
20G	20G	20G	20G	100G	100G

20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.10 **(Slot 9) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.
2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
Slot9:2G	2G	Slot9:100G	100G	Slot9:100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.11 **(Slot 10) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.
2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	Slot10:2G	100G	Slot10:100G	100G	Slot10:100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.12 **(Slot 11) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
Slot11:20G	20G	Slot11:20G	20G	Slot11:100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.13 **(Slot 12) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	20G	20G	20G	40G	40G
20G	Slot12:20G	20G	Slot12:20G	100G	Slot12:100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.14 **(Slot 13) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
Slot13:20G	20G	Slot13:20G	20G	Slot13:40G	40G
20G	20G	20G	20G	100G	100G

2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.15 **(Slot 14) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	20G	10G	10G	20G	20G
20G	Slot14:20G	20G	Slot14:20G	40G	Slot14:40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.16 **(Slot 15) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

Slot15:20G	20G	Slot15:10G	10G	Slot15:20G	20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G

20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

- 9.17 **(Slot 16) select the interface card which you needed**

1.-E card mainly used in PPPOE scenario.

2.-H card mainly used in IP hard pipe scenario.

20G	Slot16:20G 10G		Slot16:100G 20G		Slot16:20G
20G	20G	20G	20G	40G	40G
20G	20G	20G	20G	100G	100G
2G	2G	100G	100G	100G	100G
NSP-A/NSP-B		NSP-C		NSP-D	
NSP-A/NSP-B		NSP-C		NSP-D	
2G	2G	40G	40G	100G	100G
20G	20G	20G	20G	100G	100G
20G	20G	20G	20G	20G	20G
20G	20G	10G	10G	20G	20G

10. **===100G CFP2 Optical Transceiver===**

- 10.1 **High Speed Transceiver,CFP2,1310nm,103.125Gb/s. Straight LC,SMF,40km,OMA,100GBASE-ER4**

Production period is longer than 90 days. Please contact chief supply officer Lintao 00369640 before quotation, to check if the stocking quantity is sufficient.

11. **===40G CFP Optical Transceiver===**

- 11.1 **High Speed Transceiver,CFP,850nm,4*10.3125Gb/s,mpo,MM,0.1km**

Need configure 40G MPO Patch Cord

12. **===10G/GE Auto-adaptation XFP SFP+ Optical Transceiver===**

- 12.1 **XFP SFP+ Transceiver-SFP+-1310nm-10G/1G-Single-mode-LC-10km**

Only below boards supporting 10GE/GE auto-sensing optical transceiver:
03032TTX 10-Port 10GBase LAN/WAN-SFP+ Physical Interface Card(PIC)
03031DJP 4-Port 10GBase LAN/WAN-SFP+ Physical Interface Card
03031DJQ 1-Port 10GBase LAN/WAN-SFP+ + 8-Port 100/1000Base-X-SFP Physical Interface Card
03030WGQ 2-Port 10GBase LAN/WAN-SFP+ Physical Interface Card

13. **===155M SFP/eSFP Optical Transceiver===**

   o 13.1 **Optical Transceiver,eSFP,1310nm,2.048Mb/s,LC,SM,2km**

Need configure with MP8A board.

14. **===Software(The Base Software is provided automatically)===**

   o 14.1 **Need software bundle(Basic software+PPPoE/IPoE) or not**

The software bundle includes Basic software, PPPoE, IPoE, L2TP, 1588v2, 32K
BRAS function access subscribers.

   o 14.2 **Need PPPoE/IPoE Function or not**

Only MPUE1+ Ethernet board support PPPoE/IPoE function

   o 14.3 **Need L2TP Function or not**

Before enabling the L2TP function, configure the PPPoE/IPoE license to support the
basic BRAS functions. The L2TP license is mandatory for the LNS and LTS functions.
The L2TP license is not required for the LAC function. LNS, LTS, LAC are all required
to configure user license.

   o 14.4 **Need DAA Function or not**

Before enabling the DAA function, configure the PPPoE/IPoE license to support the
basic BRAS functions. The DAA license is mandatory for the DAA functions. The
DAA license is required to configure user license.

   o 14.5 **Please input the quantity of the BRAS function access
        subscribers(K)**

Need work together with the PPPoE/IPoE function license. A maximum of 32K
licenses can be configured for an NE20E-S

   o 14.6 **MACsec Port Function License(per 100GE)**

This license is used for 1-Port 100GBase-QSFP28+MACsec Interface Card.

   o 14.7 **MACsec Port Function License(per 10GE)**

1.This license is used for 1-Port 100GBase-QSFP28+MACsec and 4-Port 10GBase-
SFP+MACsec Interface Card.
2.Each 10G port could configure 1PCS.

15. **===Patch Cord===**

- 15.1 **Please select the Client Interface Option of Patch Cord**

Default LC,10m.If need other specification. Please change it at "Bill of Configuration".

- 15.2 **Please input the quality of demultiplexing port of this equipment**

1.This parameter is used for calculating the quantity of patch cords of demultiplexing-port. Multiplexing & Demultiplexing Card contains 1-channel Multiplexing and 8-channel Demultiplexing. Each channel needs 2 PCS patch cords.
2.The port connected with demultiplexing-port must configure CMDM Optical Transceiver.

- 15.3 **Please select the length of MPO Patch Cord**

MPO optical module use this fiber

16. **===Trunk Cable===**

- 16.1 **Please select synchronous signal type**

The device can supply Clock signal("2M primary clock")or 1588v2 signal("1PPS+TOD signal" or "DCLS signal").If need Clock signal, please configure E1 cable. If need 1588v2 signal, made network cable on site. Any question, please refer to Configuration Manual or contact developer.

- 16.2 **Need to configure the synchronous signal input cable or not**

Need to configure this cable, while need to input "2M Primary Clock".

- 16.3 **Need to configure the synchronous signal output cable or not**

Need to configure this cable, while need to output "2M Primary Clock".

- 16.4 **===RS232/FXS/FXO/E&M board cable===**

  - 16.4.1 **Please input the quantity of RS232**

MPA board supports RS232/RS485/RS422 interface, MPA board supports a maximum of two RS232 cable, two RS485/RS422.

  - 16.4.2 **Please input the quantity of FXS/FXO**

MPA board supports four FXS/FXO interface, MPA board supports a maximum of need 4 standard phone lines

  - 16.4.3 **Need E&M Interface or not**

1.MPA board supports 2-channel E&M interface, MPA board supports a maximum of 2 pieces of E&M cable.

2.6 Channels E&M Interface Board supports 6-channel E&M interface, MPA board supports a maximum of 6 pieces of E&M cable.

- ### 16.4.4 **Need lightning arrester or not**

Arrester must be configured when unshielded cable is used in outdoor.

- o 16.5 **===SA8 board cable===**

- ### 16.5.1 **Please input the quantity of X.21-DTE**

SA8 board supports 8-channel X.21 interface,SA8 board must be equipped with an 8 records at most X.21 DTE cable

- ### 16.5.2 **Please input the quantity of X.21-DCE**

SA8 board supports 8-channel X.21 interface,SA8 board must be equipped with an 8 records at most X.21 DCE cable

- ### 16.5.3 **Please input the quantity of V.24-DTE**

SA8 board supports 8-channel V.24 interface,SA8 board must be equipped with an 8 records at most V.24 DTE cable

- ### 16.5.4 **Please input the quantity of V.24-DCE**

SA8 board supports 8-channel V.24 interface,SA8 board must be equipped with an 8 records at most V.24 DCE cable

- ### 16.5.5 **Please input the quantity of V.35-DTE**

SA8 board supports 8-channel V.35 interface,SA8 board must be equipped with an 8 records at most V.35 DTE cable

- ### 16.5.6 **Please input the quantity of V.35-DCE**

SA8 board supports 8-channel V.35 interface,SA8 board must be equipped with an 8 records at most V.35 DCE cable

- o 16.6 **Please select the length of MP8A board cable**

MP8A board support SFP and RJ-45 interface,4 PCS fiber-Optical and 4PCS 120ohm 1*E1 cable can be configured at most for each MP8A.

17. **===Power Cable===**

- 17.1 **Need separate configure DC power cable or not**

1.No need configure by default. The basic configuration includes a 3m power cable. Need configure separately only when the length of power cable is not enough.2.Usually, the device needs configure separate power cable only when it needs connect to the PDF directly.

- 17.2 **Please input the length of each device DC power cable (m)**

By default, Huawei provides blue cables (-48V) and black cables (GND), and cables of the other colors need to be remarked for purchase and determine whether to purchase locally according to the actual situation.