Installing the Chassis Voice Interface Card
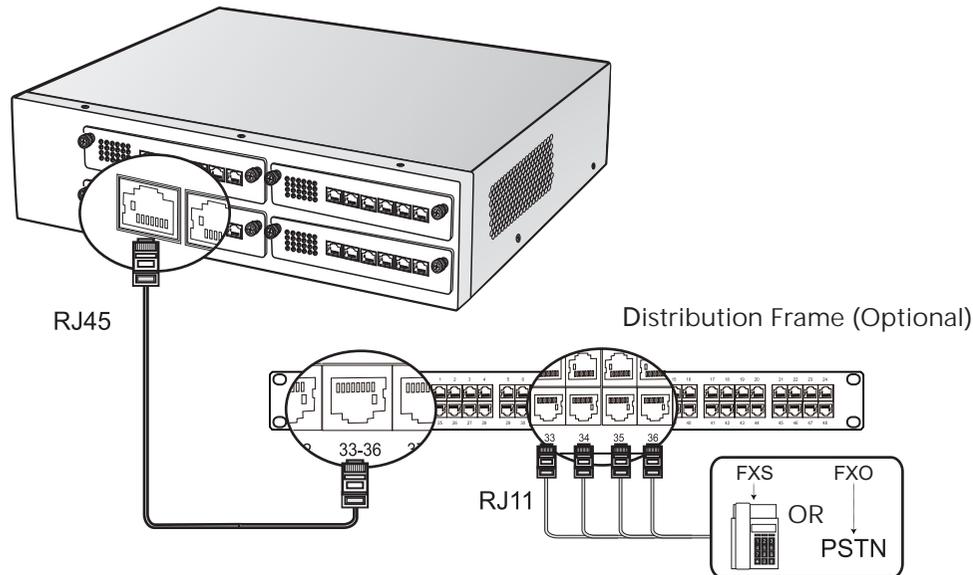
Although the voice interface card supports hot-swapping, we still recommend installing the voice interface card without a power supply connected.

1. Gently push the voice interface card into the slot along the slide inside the host chassis until it is fastened to the adapter board of the device, and the panel of the voice interface card should be flush with the panel of the device.

2. Rotate the two insertion and removal nuts on the voice interface card in a clockwise direction and tighten them until they cannot be rotated.

Subscriber line interface cable connections (see Figure 1)

It is strictly prohibited to connect energized lines such as external lines or PBX extension lines to the FXS interface to avoid damage to the interface!

1. Each voice interface card uses six RJ45s as user line interfaces, and each RJ45 can access four pairs of telephone lines.
In order to ensure a reliable connection, the RJ45 crystal head should be crimped with a Category 5 cable, and the other end of the cable should be connected to the distribution frame in accordance with the interface number and the order of the pairs. Wiring mode see: RJ45 socket port pin lead specification table
3. Connect the other end of the FXS interface to the telephone, fax machine or other equipment through the adapter of the distribution frame, and connect the other end of the FXO interface to the outside line or PBX subscriber line interface.

RJ45

Distribution Frame (Optional)

33-36

RJ11

FXS   FXO

OR

PSTN

Connecting the Uplink Cable

1. Factory default user configuration interface login password: mx120 (After the device is enabled, please modify this password in time and keep it in a safe place).

2. The ETH1 port is activated at the factory. Factory default IP address: 192.168.2.240, subnet mask: 255.255.0.0.

3. The device must be connected to a switch or router, not to a Hub.

Connecting the Protective Earth Wire

There are M4 grounding screw holes on the back of the main chassis and expansion chassis, please use M4 screws (supplied) to connect the grounding wire.

Connecting the Power Cord

Depending on the type of power supply, a three-pronged power outlet (AC) and the supplied plug-in terminal block (DC) are recommended. Make sure that the power supplies are both grounded.

RJ45 Receptacle Port Pinout Wire Lead Specification Sheet

Crystal Head Lead Number	1	2	3	4	5	6	7	8
Corresponding User Line	Route 1		Route 2	Route 3		Route 2	Route 4	
	TIP1	RING1	TIP2	TIP3	RING3	RING2	TIP4	RING4
Reference Colors	White-Orange	Orange	White-Green	Blue	White-Blue	Green	White-Brown	Brown

Note: It is also possible to plug the RJ11 telephone cable directly into the FXS RJ45 socket; in this case the cable is connected to the third pair of RJ45 pins and can be used for temporary call testing.

Table of the relationship between the RJ45 socket of the voice interface card and the corresponding serial number of the device line

RJ45 Jack Numbers (Left to Right)	1	2	3	4	5	6
Line NO.	1~4	5~8	9~12	13~16	17~20	21~24
24 FXS	FXS	FXS	FXS	FXS	FXS	FXS
24 FXO	FXO	FXO	FXO	FXO	FXO	FXO
16FXS/8FXO	FXO	FXO	FXS	FXS	FXS	FXS
12FXS/12FXO	FXO	FXO	FXO	FXS	FXS	FXS

Note: The FXS/FXO port pairs labeled with the same background color in the table are equipped with the power failure protection function.

Safety Instructions

1   Try to place the device in the LAN, not easily exposed to the Internet.
2. Avoid using the default port (e.g., 80, 5060, etc.) when placing the device on the Internet.
3   Any device placed on the Internet carries risks (including but not limited to being attacked, information theft, password cracking, phone calls, etc.), and the user shall be responsible for the self-determined behavior.

Voice Gateway Installation Requirements

(RJ21 plug-in cards only)
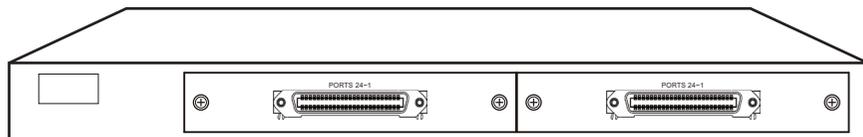
Installing the Chassis Voice Interface Card

Although the voice interface card supports hot-swapping, we still recommend installing the voice interface card without connecting the power supply.

1. Gently push the voice interface card into the slot along the slide inside the mainframe chassis until it is fastened to the adapter board of the device, and the faceplate of the voice interface card should be flush with the faceplate of the device. **2**.

2. Turn the two insertion and removal nuts on the voice interface card in a clockwise direction and tighten them until they cannot be turned.
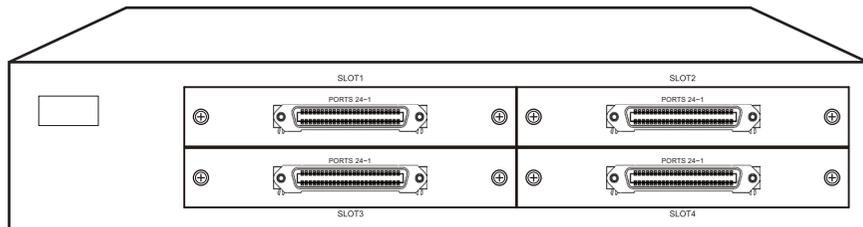
Subscriber Line Interface Cable Connection (See Figure)

It is strictly prohibited to connect energized lines such as external lines or PBX extension lines to the FXS interface to avoid damage to the interface!

Insert the "RJ21 plug" of the cable into the "RJ21 socket" on the interface card panel.

1U Case

2U Case

Connecting the Uplink Cable

1. Factory default user configuration interface login password: mx120 (After the device is enabled, please modify this password in time and keep it in a safe place). 2. The ETH1 port is activated at the factory. Factory default IP address: 192.168.2.240, subnet mask: 255.255.0.0.

3.The device must be connected to a switch or router, not to a Hub.

Connecting the Protective Earth Wire

The chassis and expansion chassis have M4 grounding screw holes on the back of the chassis, please use M4 screws (supplied) to connect the grounding wire.

Connecting the Power Cord

Depending on the type of power supply, a three-pronged power outlet (AC) and the supplied plug-in terminal block (DC) are recommended. Make sure that the power supplies are both grounded.

Voice interface card RJ21 socket and equipment line serial number correspondence table

RJ21 Socket Number	1	26	2	27	3	28	4	29	5	30	6	31	7	32	8	33
Corresponding User Line	Route 1		Route 2		Route 3		Route 4		Route 5		Route 6		Route 7		Route 8	
	RING1	TIP1	RING2	TIP2	RING3	TIP3	RING4	TIP4	RING5	TIP5	RING6	TIP6	RING7	TIP7	RING8	TIP8
RJ21 Socket Number	9	34	10	35	11	36	12	37	13	38	14	39	15	40	16	41
Corresponding User Line	Route 9		Route 10		Route 11		Route 12		Route 13		Route 14		Route 15		Route 16	
	RING9	TIP9	RING10	TIP10	RING11	TIP11	RING12	TIP12	RING13	TIP13	RING14	TIP14	RING15	TIP15	RING16	TIP16
RJ21 Socket Number	17	42	18	43	19	44	20	45	21	46	22	47	23	48	24	49
Corresponding User Line	Route 17		Route 18		Route 19		Route 20		Route 21		Route 22		Route 23		Route 24	
	RING17	TIP17	RING18	TIP18	RING19	TIP19	RING20	TIP20	RING21	TIP21	RING22	TIP22	RING23	TIP23	RING24	TIP24

Safety Instructions

1 Try to place the device in the LAN, not easily exposed to the Internet.
2. Avoid using the default port (e.g., 80, 5060, etc.) when placing the device on the Internet.
3 Any device placed on the Internet carries risks (including but not limited to being attacked, information theft, password cracking, phone calls, etc.), and the user shall be responsible for the self-determined behavior.

Voice Gateway Installation Requirements
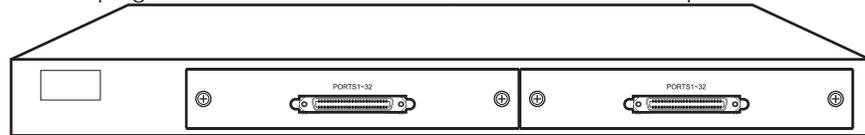## (32S plug-in cards only)

Installing the Chassis Voice Interface Card

Although the voice interface card supports hot-swapping, we still recommend installing the voice interface card without a power supply connected.
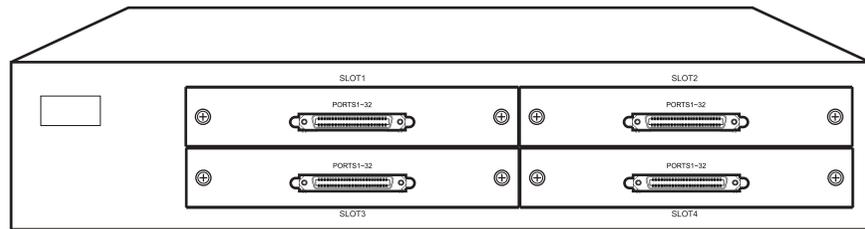
1. Gently push the voice interface card into the slot along the slide inside the host chassis until it is fastened to the adapter board of the device, and the panel of the voice interface card should be flush with the panel of the device.

2. Rotate the two insertion and removal nuts on the voice interface card in a clockwise direction and tighten them until they cannot be rotated.

Subscriber Line Interface Cable Connection (See Figure)

It is strictly prohibited to connect the external cable or PBX extension cable and other electrified lines to the FXS interface, so as not to cause interface damage! 1. Insert the "SCSI68 plug" of the cable into the "SCSI68 socket" on the panel of the interface card.

PORTS1-32   PORTS1-32

1U Case

SLOT1   SLOT2
PORTS1-32   PORTS1-32

PORTS1-32   PORTS1-32
SLOT3   SLOT4

2U Case

Connecting the Uplink Cable

1. Factory default user configuration interface login password: mx120 (After the device is enabled, please modify this password in time and keep it in a safe place). 2. The ETH1 port is activated at the factory. Factory default IP address: 192.168.2.240, subnet mask: 255.255.0.0.

3. The device must be connected to a switch or router, not to a Hub.

Connecting the Protective Earth Wire

There are M4 grounding screw holes on the back of the main chassis and expansion chassis, please use M4 screws (supplied) to connect the grounding wire.

Connecting the Power Cord

Depending on the type of power supply, a three-pronged power outlet (AC) and the supplied plug-in terminal block (DC) are recommended. Make sure that the power supplies are both grounded.

32S Voice Interface Card Corresponding to Device Line Serial Number Table

SCSI68	Grouping Colors	Twisted Pair Color	Code	Ports	SCSI68	Grouping Colors	Twisted Pair Color	Code	Ports
36	Blue	Blue	Tip(+)	1	54	Orange	Blue	Tip(+)	17
35		White	Ring(-)		53		White	Ring(-)	
38		Orange	Tip(+)	2	56		Orange	Tip(+)	18
37		White	Ring(-)		55		White	Ring(-)	
40		Green	Tip(+)	3	58		Green	Tip(+)	19
39		White	Ring(-)		57		White	Ring(-)	
42		Brown	Tip(+)	4	60		Brown	Tip(+)	20
41		White	Ring(-)		59		White	Ring(-)	
44		Grey	Tip(+)	5	62		Grey	Tip(+)	21
43		White	Ring(-)		61		White	Ring(-)	
46		Blue	Tip(+)	6	64		Blue	Tip(+)	22
45		Red	Ring(-)		63		Red	Ring(-)	
48		Orange	Tip(+)	7	66		Orange	Tip(+)	23
47		Red	Ring(-)		65		Red	Ring(-)	
50		Green	Tip(+)	8	68		Green	Tip(+)	24
49		Red	Ring(-)		67		Red	Ring(-)	
2	Blue	Brown	Tip(+)	9	20	Orange	Brown	Tip(+)	25
1		Red	Ring(-)		19		Red	Ring(-)	
4		Grey	Tip(+)	10	22		Grey	Tip(+)	26
3		Red	Ring(-)		21		Red	Ring(-)	
6		Blue	Tip(+)	11	24		Blue	Tip(+)	27
5		Black	Ring(-)		23		Black	Ring(-)	
8		Orange	Tip(+)	12	26		Orange	Tip(+)	28
7		Black	Ring(-)		25		Black	Ring(-)	
10		Green	Tip(+)	13	28		Green	Tip(+)	29
9		Black	Ring(-)		27		Black	Ring(-)	
12		Brown	Tip(+)	14	30		Brown	Tip(+)	30
11		Black	Ring(-)		29		Black	Ring(-)	
14		Grey	Tip(+)	15	32		Grey	Tip(+)	31
13		Black	Ring(-)		31		Black	Ring(-)	
16		Blue	Tip(+)	16	34		Blue	Tip(+)	32
15		Yellow	Ring(-)		33		Yellow	Ring(-)	

Safety Instructions

1、Try to place the device in the LAN, not easily exposed to the Internet.

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3、Any device placed on the Internet carries risks (including but not limited to being attacked, information theft, password cracking, phone calls, etc.), and the user shall be responsible for the self-determined behavior.