

HKBN Sip Trunk (PSTN) Configuration

What is HKBN Enterprise SIP Trunk?

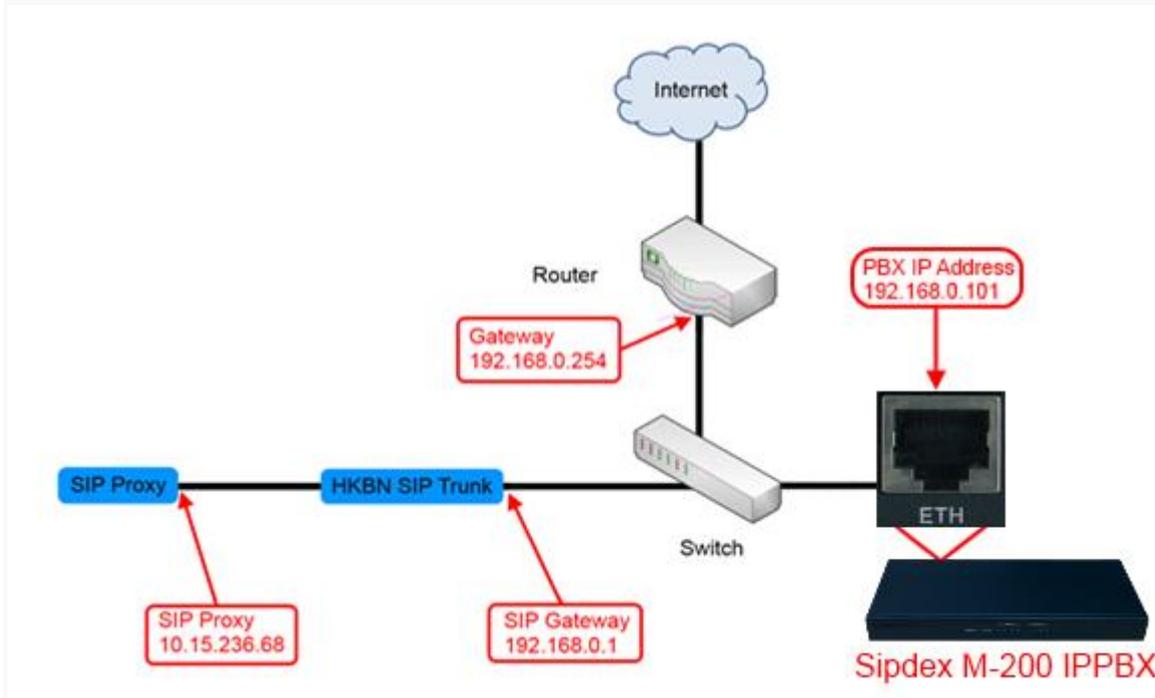


Hong Kong Broadband Network's Enterprise SIP Trunk service is fully designed to enhance and support a full range of business communications. Utilizing the client's network as its focal point, it significantly reduces telecom overheads while offering a rich array of features.

The Enterprise SIP Trunk is an IP access solution that enables direct service provider to enterprise connections of IP PBX or SIP gateways over IP. Unlike a time-division multiplexing (TDM) trunk, a SIP Trunk is a direct SIP-to-SIP connection to the public switched telephone network (PSTN) without converting from TDM.



Hardware Connection



HKBN Default Setting

PBX IP Address: 192.168.0.101

SIP Trunk Gateway:192.168.0.1

Subnet Mask: 255.255.255.0

Check Firmware Version

To do the HKBN SIP Trunk Configuration with Sipdex M200 IPPBX, please make sure that the firmware version is V1.05 or above, and Patch1 (Download) is installed.

Sipdex
Logout

- Home
- Operator
- Basic
- Inbound Control
- Advanced
- Network Settings
- Security
- Report
- System

Home [↶](#)

System Info

Network
Ethernet IP: 192.168.188.92 MAC: 68:69:2E:04:0B:9B

Storage
Disk Total: 3.0G Used: 183.5M
Ext Disk Total: N/A Used: N/A

Slot Info

SLOT 1				SLOT 2			
1	2	3	4	1	2	3	4
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Device Info

Model No.: M-200 IPPBX System Version: 1.0.5 ←

System Patch(es): patch1 ←

Current Time:07/11/14 11:54 Run Time:5 min

Move the mouse over a field to see tooltips

Device Info

Model No.: M-200 IPPBX System Version: 1.0.5
System Patch(es): patch1

If you need to upgrade the system, please visit our website (<http://www.sipdex.com>), download files and updates. Then go to the management interface, press Upgrade, select WEB Upgrade and Restore Default Set, and select the upgrade file, then press Upload.

- Home
- Operator
- Basic
- Inbound Control
- Advanced
- Network Settings
- Security
- Report
- System
 - Time Settings
 - Module Settings
 - Data Storage
 - Management
 - Backup
 - Reset & Reboot
 - Upgrade

Upgrade

Upgrade System Package

2. → WEB Upgrade TFTP Upgrade
Restore Default Set: 3.
Please choose file to upload: uImage-md5.u50...eutral.patch1
5. → 4.

Restore Default Settings:
If checked the option, the system will restore factory settings after upgrade.

Note: After the system update requires a restart, and all settings will be restored to factory condition.

Sipdex M-200 IPPBX Configuration

Step 1) set up a SIP account

Click Basic > Extensions > New User > Enter SIP ACCOUNT information.

New X

General

SIP: IAX2:
Name: Extension:
Password: Outbound CID:
DialPlan: Analog Phone:

Voicemail

Enable: Password:
Delete VMail: Email(Fax/Voicemail):

Other Options

Web Manager: Agent: Call Waiting:
Allow Being Spied: Pickup Group:
Mobility Extension: Mobility Extension Number:

VoIP Settings

NAT: Transport: SRTP:
DTMF Mode: Permit IP:

Video Options

Video Call: H.261 H.263 H.263+ H.264

Audio Codecs

g722 g726 gsm speex	→ ← ←←	ulaw alaw g729
Disallowed		Allowed
		<input type="button" value="Save"/> <input type="button" value="Cancel"/>

Step 2) Create SIP Trunk

Click Basic > Trunks > New VoIP Trunk > Set up SIP Trunk

Description : Enter SIP Trunk name, for e.g.HKBN SIP Trunk

Protocol : select SIP

Host : enter the IP Address provided by HKBN

Maximum Channels : Enter Applied SIP Trunk value

Without Authentication : Tick

Press Save

New VoIP Trunk

Description: **5.** HKBN SIP Trunk

Protocol: **6.** SIP

Peer Mode:

Host: **7.** 10.15.236.68 :5060

Maximum Channels* **8.** 99

Prefix: _____

Outbound CID: _____

Without Authentication **9.**

Advanced Options

10. Save Cancel

Step 3) Create Outbound Routes

Click Basic > Outbound Routes > New DialRule

Rule Name : Enter DialRule name , for Eg HKBN SIP Trunk

Place this call through : Move the HKBN Sip trunk to Selected Trunks

Custom Pattern : Enter outbound Rule. To call out by HKBN SIP trunk when XXX over than 3 Digits

Remarks : Custom Pattern **must be CAPITAL LETTER**

New DialRule

11. Rule Name: HKBN SIP Trunk

PIN Set:

Call Duration Limit: _____ seconds

Time Rule:

Place this call through:

12.

Available Trunks Selected Trunks

HKBN SIP Trunk(SIP)

13. Custom Pattern: XXX.

Z Any digit from 1 to 9
N Any digit from 2 to 9
X Any digit from 0 to 9
 . Any number of additional digits

Delete _____ digits prefix from the front and auto-add digit _____ before dialing

14. Save Cancel

Step 4) Create New Inbound Routes

Click Inbound Control > Inbound Routes > Number DIDs > New Number DID

DID Number : Enter last 3 digit of the DDI Range , For 3123 4572 – 3123 4581 , Then Enter 572.

Destination : To select different Destination. For e.g. If you want to ring 800 Ring group for 31234572 in bound calling. Select Goto Extension and 800, Then press save.

New Number DID X

DID Number: **15.**

Destination: **16.** **17.**

18.

Step 5) Setup Virtual Interface

Click Network Settings > Network > IPv4 Settings > Virtual Interface

IP Address V1 : Select , Enter HKBN PBX IP Address , For e.g. *192.168.0.101*

Subnet MaskV1 : Enter HKBN Subnet , For e.g. *255.255.255.0*

Then press Save

- Home
- Operator
- Basic
- Inbound Control
- Advanced
- Network Settings **19.**
 - Network **19.**
 - 3G Network
 - Static Routing
 - VPN Server
 - VPN Client
 - DHCP Server
 - DDNS Settings
 - SNMPv2 Settings

Network

20.

Ethernet Port Setup

IP Assign:

IP Address:

Subnet Mask:

Gateway:

Primary DNS:

Alternate DNS:

Virtual Interface

21. IP AddressV1: **22.** Subnet MaskV1:

IP AddressV2: Subnet MaskV2:

23.

Step 6) create Static Route

Click Network Settings > Static Routing > Static Routing > New Static Routing

Sipdex

Destination IP : Enter the SIP Trunk 的 Network IP provided by HKBN , For Eg.10.15.236.0

Subnet Mask : Enter THE Subnet IP provided by HKBN , For Eg.255.255.255.0

Gateway : Enter THE Gateway IP provided by HKBN , For Eg. 192.168.0.1

Press Save

New Static Routing		X
Destination Network:	<u>10.15.236.0</u>	24.
Subnet Mask:	<u>255.255.255.0</u>	25.
Gateway:	<u>192.168.0.1</u>	26.
27. <input type="button" value="Save"/> <input type="button" value="Cancel"/>		

Step 7) Connection Test

Click Network Settings > TroubleShooting > Ping , Enter HKBN SIP Server / SIP Proxy IP。

Troubleshooting

Ping 10.15.236.68 Packets: 4

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PING 10.15.236.68 (10.15.236.68): 56 data bytes
64 bytes from 10.15.236.68: icmp_seq=0 ttl=57 time=12.1 ms
64 bytes from 10.15.236.68: icmp_seq=1 ttl=57 time=1.0 ms
64 bytes from 10.15.236.68: icmp_seq=2 ttl=57 time=1.1 ms
64 bytes from 10.15.236.68: icmp_seq=3 ttl=57 time=1.1 ms

--- 10.15.236.68 ping statistics ---
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 1.0/3.8/12.1 ms
```