

# SBK-32/SBK-128

## Remote SIM Bank

### User Manual



SBK-32



SBK-128

# PORTech Communications Inc.

The Most updated version of this User Manual is available at our website,  
Please check our site for the latest updates, [www.portech.com.tw](http://www.portech.com.tw)

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## **1. Introduction**

SBK-32/SBK-128 is a Remote SIM Bank with 32/128 SIMs that can connect with serial MV-37X via internet. With SBK-32/SBK-128, SIM cards no longer need to be installed in MV-37X anymore; you can deploy your GSM gateways in different locations and countries.

New concept of using SBK-32/SBK-128 solution, you can centralize and supervise all SIMs in one place. With SBK-32/SBK-128, you can place physical SIMs in office or change SIM corresponding port directly on web any second. MV-37X through internet connects with SBK-32/SBK-128 to read the SIM information and register it on the GSM network.

## **2. Function description**

2.1 Wan port\*1, Lan port\*1, All settings set on web

2.2 Handle 32/128 SIM cards per SBK-32/SBK-128

2.3 Central management and secure storage of all SIM card

2.4 Control and Supervision of your SIMs from your office

2.5 Allow you to choose the best GSM operators price plan

2.6 Immediate control of all your SIM cards from your office

2.7 Easy and powerful web based management, Easy to configure  
convenience any time!

2.8 Switch SIM cards between connected gateways, configuration via remote  
client

2.9 Save huge costs on technicians and traveling to the installation sites

### 3. Parts list

Please check the parts for any missing parts. If do, please contact our agents :

3.1 「SBK-32/SBK-128」 main body

3.2 Power adaptor AC-DC (110V AC – 12V DC) or (220V AC – 12V DC)

3.3 Network cable

3.4 Rack-mount accessories (SBK-128)

3.5 User Manual

(3.1)



(SBK-32)



(SBK-128)

3.2 Power adaptor



(SBK-32)



(SBK-128)



Network Cable  
(3.3)



Rack-Mount  
(3.4)

**4. Dimension: 20cm x 14cm x 16.5cm (SBK-32)**

**Dimension: 44cm x 14cm x 5.7cm (SBK-128)**

## 5. Chart of SBK-32/SBK-128

### 5.1 SIM Card Slot

There are 32/128 SIM slots as follows diagram, please install the SIM card and make sure the chip is in left side.

When you install the SIM in right position, the Green LED will flicker for 2 seconds then still lighting.

If not, please reinstall the SIM card.



Notice!

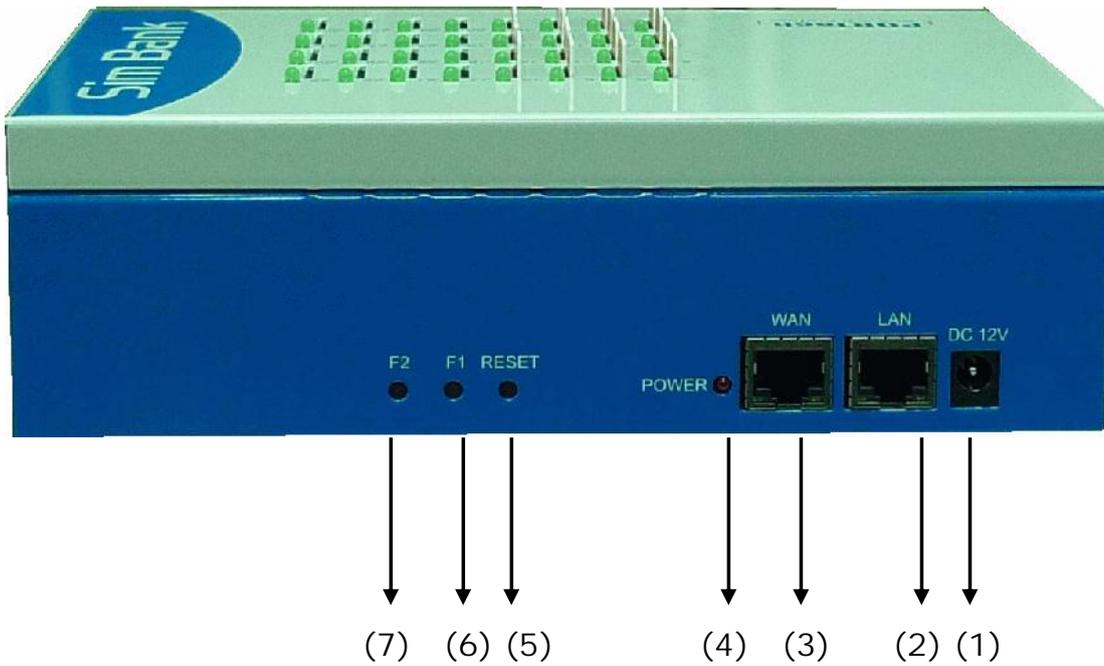


All SIM-Holders are

ESD sensitive area

### 5.2 Back of SBK-32/SBK-128





- (1) DC 12V: Power input
- (2) Lan: standard RJ-45 socket, can be used to connect internet devices
- (3) Wan: standard RJ-45 socket please input the internet cable with HUB connected. LED will light on when network is connected
- (4) Power LED: Red light on when power is connected.
- (5) Reset Button: press the button, it will reset the system
- (6) F1: For return to default IP. Press about 7~8 seconds then the WAN and LAN will light with orange. The system will return to default IP 192.168.0.100
- (7) F2: Change the IP type to DHCP Client (press about 3 seconds)

## 6. Web Page Setting

When the IP setting is done, the User may setup all the rest parameters via web page. Browse the IP address from Internet Explorer (e.g. <http://192.168.0.100>) . The following page shows up :



**Login SIM Bank**

Enter your username and password to login  
SIM Bank

Username

Password

Login Clear

Enter the username and password for authentication.

Username:	voip
Password	1234

The page follows when the username and password are correct.

## 7. System Information

7.1 When you login the web page, you can see the current system information like firmware version, company...etc in this page.

7.2 You can see the function lists on the left side. Please click the function for setup

**PORTech**  
Your CTI Partner

**SIM BANK**

Network

Update

System Authority

Save Change

Reboot

### SBK-128 v1.708

Model Description:	SIM Bank for Mobile VOIPs.
Firmware Version:	Tue Nov 12 14:18:00 2013
Codec Version:	Fri Mar 20 17:13:45 2009
Contact Address:	150, Shiang-Shung N.Road., Taichung, Taiwan, R.O.C.
Tel:	☎ 886-4-23058000
Fax:	886-4-23022596
E.mail	<a href="mailto:sales@portech.com.tw">sales@portech.com.tw</a>
Web Site:	<a href="http://www.portech.com.tw">http://www.portech.com.tw</a>

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**PORTech**  
Your CTI Partner

SIM BANK

Network

Update

System Authority

Save Change

Reboot

### SBK-32 v1.708

Model Description:	SIM Bank for Mobile VOIPs.
Firmware Version:	Tue Nov 12 14:20:29 2013
Codec Version:	Fri Mar 20 17:13:45 2009
Contact Address:	150, Shiang-Shung N.Road., Taichung, Taiwan, R.O.C.
Tel:	☎ 886-4-23058000
Fax:	886-4-23022596
E.mail	<a href="mailto:sales@portech.com.tw">sales@portech.com.tw</a>
Web Site:	<a href="http://www.portech.com.tw">http://www.portech.com.tw</a>

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## 8. SIM Bank

### 8.1 SIM Status



The screenshot shows the PORTech web interface. At the top left is the logo "PORTech Your CTI Partner". Below it is a navigation menu with several options: "SIM Bank", "SIM Status" (which is highlighted with a yellow background), "Bank Setting", "Network", "Update", "System Authority", "Save Change", and "Reboot".

## SIM Status

2009-11-10 17:44

Page: 1

No.	C/S	SIM ID	Mobile ID	Remote IP
1	1/1	ba000000	a0378101	192.168.0.111:1204
2	2/1	ba000001	a0378102	192.168.0.111:1204
3	3/1	ba000002	a0378103	192.168.0.111:1208
4	4/1	ba000003	a0378104	192.168.0.111:1208
5	1/2	ba000004	a0378105	192.168.0.111:1212
6	2/2	ba000005	a0378106	192.168.0.111:1212
7	3/2	ba000006	a0378107	192.168.0.111:1216
8	4/2	ba000007	a0378108	192.168.0.111:1216

- (1) No: SIM Card Slot number
- (2) C/S: Card/Slot
- (3) SIM ID: 8 digits for HEX code. You can define the code as Identity ID
- (4) Mobile ID: 8 digits for HEX code. You can define the code as Identity Mobile ID at the corresponding MV-37X
- (5) Remote IP: it's the IP of corresponding MV-37X

## 8.2 Bank Setting



# Bank Setting

Item	Value
Bank ID	<input type="text" value="ba000000"/>
Bank Port	<input type="text" value="1200"/> (1024~60000)

- (1) Bank ID: 8 digits for HEX code(0~f), it's the auto number for SIM card ID  
 The default is b0000000, user can't change to 0000 or ffff in first four Code. Please make the Submit and Save Change after the setting.

Ex. If you make the setting code like ba000000, the follow SIM card ID will add automatically, like ba000001, ba000002, and etc. Please see follow diagram as example



# SIM Status

2009-11-10 17:44

Page:

No.	C/S	SIM ID	Mobile ID	Remote IP
1	1/1	ba000000	a0378101	192.168.0.111:1204
2	2/1	ba000001	a0378102	192.168.0.111:1204
3	3/1	ba000002	a0378103	192.168.0.111:1208
4	4/1	ba000003	a0378104	192.168.0.111:1208
5	1/2	ba000004	a0378105	192.168.0.111:1212
6	2/2	ba000005	a0378106	192.168.0.111:1212
7	3/2	ba000006	a0378107	192.168.0.111:1216
8	4/2	ba000007	a0378108	192.168.0.111:1216

- (2) Bank Port: it's SIM bank Port used for the Data transfer, the default is 1200 and can able to change. If SIM Bank is virtual IP or IP behind firewall, please mapping port to the fixed IP from Router or firewall setting. After you make the Submit, please clink Save Change for whole process.

Please check SIM server setting on SIM Bank as follow:  
When finished the setting, please click the Submit button and Save Change.

Bank basic data	
Bank ID	a0000000 (1st SIM ID)
Bank Port	1200 (1024~60000)

Register to SIM server	
Active	<input checked="" type="radio"/> ON <input type="radio"/> OFF
Bank Num	1 (01~99)
Bank Name	bank108
Server URL	59.125.1.191:1200

Submit Reset

Bank Setting ---->Register to SIM server

(Follows are the related setting for SIM Bank to connect SIM Server)

1. Active
  - a. ON : Enable SIM Server Feature
  - b. OFF: Disable SIM server feature (Default value). MV connect SIM card via remote SIM Bank instead of SIM Server.
2. Bank Num: Fill in the number (0~99) to correspond to the SIM Bank ID with the SIM Server. Please refer to SIM Server's setting, and default is 1.
3. Bank Name: Fill in bank name to correspond to SIM Bank Name of SIM Server. Please refer to SIM Server's setting.
4. Server URL: Fill in "SIM server IP: Listen port number" for SIM Bank connection.

## 9. Network

### 9.1 Status

You can check the current Network Setting in this page



---

**SIM Bank**

---

**Network**

---

**Status**

WAN Settings

LAN Settings

SNTP Settings

---

**Update**

---

System Authority

---

Save Change

---

Reboot

## Network Status

---

Master	WAN Interface	LAN Interface
Type	Fixed IP Client	Fixed IP Client
IP	192.168.0.110	192.168.33.254
Mask	255.255.255.0	255.255.255.0
Gateway	192.168.0.254	192.168.33.254
MAC	00037EF66666	00037EF66667

---

## 9.2 WAN settings

**PORTech**  
Your CTI Partner

**SIM Bank**

**Network**

Status

WAN Settings

LAN Settings

SNTP Settings

**Update**

System Authority

Save Change

Reboot

# WAN Settings

You could configure the WAN settings in this page.

Network Mode:  Bridge  NAT

WAN Setting	
IP Type	<input checked="" type="radio"/> Fixed IP <input type="radio"/> DHCP Client <input type="radio"/> PPPoE
Master IP	<input type="text" value="192.168.0.110"/>
Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.0.254"/>
DNS Server1	<input type="text" value="168.95.192.1"/>
DNS Server2	<input type="text" value="168.95.1.1"/>
MAC	<input type="text" value="00037e126866"/>

PPPoE Setting	
User Name	<input type="text"/>
Password	<input type="text"/>

- (1) The TCP/IP Configuration item is to setup the WAN port's network environment. You may refer to your current network environment to configure the system properly.
- (2) The PPPoE Configuration item is to setup the PPPoE Username and Password. If you have the PPPoE account from your Service Provider, please input the Username and the Password correctly.
- (3) The Bridge Item is to setup the system Bridge mode Enable/Disable. If you set the Bridge On, then the two Fast Ethernet ports will be transparent.
- (4) When you finished the setting, please click the Submit button.

## 9.3 LAN Settings



**SIM Bank**

**Network**

- Status
- WAN Settings
- LAN Settings**
- SNTP Settings

**Update**

System Authority

Save Change

Reboot

# LAN Settings

### LAN Setting

IP:	<input type="text" value="192.168.33.254"/>
Mask:	<input type="text" value="255.255.255.0"/>
MAC:	<input type="text" value="00037ef66667"/>

### DHCP Server

DHCP Server:	<input type="radio"/> On <input checked="" type="radio"/> Off
Start IP:	<input type="text" value="150"/>
End IP:	<input type="text" value="200"/>
Lease Time:	<input type="text" value="1"/> : <input type="text" value="0"/> (dd:hh)

- (1) The TCP/IP Configuration item is to setup the WAN port's network environment. You may refer to your current network environment to configure the system properly.
- (2)DHCP Server: You may refer to your current network environment to configure the system properly

## 9.4 STNP Settings



# SNTP Settings

You could set the SNTP servers in this page.

---

**SNTP:**  On  Off

Primary Server:

Secondary Server:

Time Zone: GMT +  :  (hh:mm)

Sync. Time:  :  :  (dd:hh:mm)

SNTP Setting function:

You can setup the primary and second SNTP Server IP Address, to get the date/time information. Also you can base on your location to set the Time Zone, and how long need to synchronize again. When you finished the setting, please click the Submit button.

## 10. Update

### 10.1 Update Firmware

In Update section, you can update the system's firmware to the new one or do the factory reset to let the system back to default setting.

**PORTech**  
Your CTI Partner

**Update Firmware**

GZ = f4simbk , PCB = SIM-BANK-V1B.02 .

Method:  HTTP  TFTP

**HTTP**

Code Type: Risc

File Location:  浏览...

**TFTP**

TFTP Server: 192.168.1.250

Update Reset

#### Update firmware

- (1) In New Firmware function you can update new firmware via HTTP in this page. You can upgrade the firmware by the following steps:
- (2) Select the firmware code type, Risc code.
- (3) Click the "Browse" button in the right side of the File Location or you can type the correct path and the filename in File Location blank.
- (4) Select the correct file you want to download to the system then click the Update button.
- (5) Please click update/default setting after update firmware

## 10.2 Restore Default Settings

Update/ Default Settings, you could restore the factory default settings to the system.



# Restore Default Settings

You could click the restore button to restore the factory settings.

---

Restore default settings:

## 11. System Authority

In System Authority you can change your login name and password.



## System Authority

You could change the login username/password in this page.

New username:	<input type="text"/>
New password:	<input type="password"/>
Confirmed password:	<input type="password"/>

## 12. Save Change

In Save Change you can save the changes you have done. If you want to use new setting in the SIM Bank system, you have to click the Save button.

After you click the Save button, the system will automatically restart with the new setting



# Save Changes

You have to save changes to effect them.

---

Save Changes:

## 13. Reboot

Reboot function you can restart the system. If you want to restart the system, you can just click the Reboot button, then the system will automatically restart.



# Reboot System

You could press the reboot button to restart the system.

---

Reboot system:

## 14. MV-37X Remote SIM Setting

Please go to MV-37X web setting, and check the Mobile SIM Setting.

**PORTech**  
Your CTI Partner

**SIM Card Setting**

Mobile 1, 2 ▼

CU ID  (0001 ~ 9999, Server mode)

**SIM Card of Mobile 1**

Mode  Local  Bank  Server

Mobile ID:  Group:

Card ID:

Bank URL:

Server URL:

Status: b0000002@59.125.1.190:9292

**SIM Card of Mobile 2**

Mode  Local  Bank  Server

Mobile ID:  Group:

Card ID:

Bank URL:

Server URL:

Status: b0000003@59.125.1.190:9292

1. CU ID: It's for SIM Server mode. Please omit it when you don't use SIM Server program.
2. Mode
  - a. Local: Disable Remote SIM feature
  - b. Bank: Enable Remote SIM Bank feature, and manage SIM card on SBK-32/SBK-128 SIM Bank
  - c. Server: Enable Remote SIM Server feature, and allocate SIM cards on SBK-32/SBK-128 SIM Bank.
3. Mobile ID: 8 digits for HEX code (0~f), it's the auto number for Remote Transfer Identity and can able to change the parameter. The default is a0000000, it can't change to 0000 or ffff in fist four code. Please make the Submit and Save Change after the setting.
4. Card ID: Please enter the SIM card ID corresponding to SIM bank, you can check SIM Card ID from REMOTE SIM BANK web setting as below.
5. Bank URL: Fill in the corresponding REMOTE SIM BANK IP and Port
6. Status: User can check the SIM Card ID of GSM module and IP, Port Number of SIM bank.