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1. Introduction

Simpool128/256 is an equipment which can integrated storage SI Mcards. The maximum capacity is 128/256. It can be perfectly com patible with SKYLINE SK16and SK32 series gateways. With SIM server, SIM Pool can easily communicate with gateways via I P network. In this way, we can manage the SIM cards remotely.

1.1 Special Features:

- 128/256 Channels Optional
- Web GUI: Firefox/Chrome /IE/Opera
- NAT Traversal and Firewall
- Hot Swap of SIM Cards without Powering Off
- QoS support
- Remote Manage of SIM Cards
- Multi-language Support: Chinese and English
- Dynamic Allocation of SIM Cards
- Protect SIM Cards from Blocking
- HTTP/TFTP Upgrade

1.2 Hardware Features



Model	SIMPOOL128/256
Number of Sim	128/256
	DHCP/PPPoE/VPN(pptp)
Network	NTP
Protocols	Telnet/HTTP/FTP/TFTP
Number of Ports	1 WAN 10/100Base-T ethernet(RJ-45 connector)
	1 Console(USB)
	1 Power and 256 grops of card online and running
	status indicator
Power Supply	100-240V AC, 50 - 60 Hz IN, 12V/3A OUT
Operating	Operating temperature: 0 - 50°C
Environment	Operating humidity: 10 – 90%RH
Dimension	530*305*00mm
(LxWxH)	
Weight	3.7kg
Warranty	12Months

2. System configure

2.1 Working mode

Simpool has two working mode: one is point to point, in this way, simpool communicate with gateway without server;The other mode is registration, and need a server support it .

2.1.1 Point to Point



2.1.2 registration





2.2 Device Setup



When setup the device, please follow the steps below:

- 1.Connect the small end of the power cable to the power input port on the simpool back panel, and plug the other end of the cable into a 220V AC power outlet.
- 2.Connect the Ethernet cable with the simpool wan port, the other side connect with the switch or router.

3. Login

From the web browser, input the ip address of the simpool. if this is the first time you are configuring simpool, pls use the default settings (the pc should be in the same local network with simpool):

IP:<u>http://192.168.1.67</u>

Username:root

Password:root

Gateway Administra	tion System
User Login	Account: Password: Login Reset

4. Web Settings

4.1 Basic Settings

4.1.1 WAN Settings

AN Settings		 Collaps
WAN Type:	Static IP -	
WAN IP:	192.168.1.67	
IP Mask	255.255.255.0	
Default Gateway:	192.168.1.1	
DNS Server:	192.168.1.1	Submit

Wan Settings Parameter Description:

- Wan Type : wan type include static IP 、 dynamic IP and PPPoE, the default type is static ip.
- IP Adress: specify the wan port ip address.
- IP Mask: specify the ip mask.
- Default Gateway: specify the default gateway.
- DNS Server:specify the dns server.

4.1.2 ESP Settings

ESP settings is for configuring simpool with sim center.

Point to point mode:

Settings				0) Collaps
Registration:	Disable	~	* When used as a SIM server, disable the registration.		
				Submit	Reset

In point to point mode, simpool will communicate with gateway directly, it need disable the button of registration.

registration:

c Settings				Collaps
Registration:	Enable	~	* When used as a SIM server, disable the registration.	
Server Address:	203.186.75.167		* Add ":port" to specify a special port.	
Username:	sp01.Chelson			
Password:	•••••			
Status:				
			Submi	Reset

In registration mode, simpool will register in sim center and communicate with gateway via sim center. We need enble the registration button. The parameters of esp settings are specified as following:

- Server address: specify sim server ip address.
- Username: the GOIP account which create in sim center.
- Password: the password which match with the username.

• Status : show the simpool registration status, if register successfully, it will show OK.

4.2 Advanced settings

4.2.1 VPN settings

P-VPN Settings	5		6
VPN Support:	Enabled	* Support the PPTP-VPN	
Server Address:	118.143.69.188		
Username:	admin		
Password:	admin		
Local IP:	192.168.2.9		
Remote IP:	192.168.2.1		Submit

Fields are specified as following:

- VPN support: whether support vpn or not.
- Server address: specify the vpn server address.
- Username:specify the username of vpn.
- Password:specify the password of vpn.
- Local IP: the vpn client ip.
- Remote IP:the vpn server

Network Managem	nt Settings	 Collapse
Web Port:	80	
Telnet Port:	23	
		Submit Reset

ip.

The default port of web server is 80. The field Web Port is used to set another different port for web server. For example, if field Web Port is set to 8080 and wan IP is 192.168.1.67, the web pages then should be accessed through URL: http://192.168.1.67:8080/ from this computer.

4.3 System Mgmt

4.3.1 User Mgmt

The screenshot below shows the operation mode to manage system user.

User List				Collapse
Data Detail				
Data status Account:	Add	*		
Password: Privilege:	Admin	•		Submit
Data List				Add New Delete
	Accou	unt	Privilege	Operation
	roo	t	Admin	[Edit]

User can modify password, permission, add or delete users and a series of operations here.

4.3.2 Device Mgmt

The screenshot below shows the operation mode to set basic settings.

Basic Settings			Collapse
Device Alias:			
Auto Reboot:	0	* After running specified times(hours)	
Scheduled Reboot:	Disabled 🗸		Submit Reset

Fields are specified as following:

- Device Alias: Specify the device alias.
- Auto Reboot: Specify the auto reboot time.
- Scheduled Reboot: Specify the scheduled reboot time.

The screenshot below shows the operation of date and time settings.

Date And Time			6	Collapse
Time Zone:	+8			
Time Server:		* NTP Server's host or IP address.	Submit	Reset

The default time zone is UTC+8, you can change the time zone as your country. For example, Bangladesh is UTC+6, and change as

+6. If your device is not touch with the internet and want to get accurate time, the time server will help.

The screenshot below shows the operation mode for remote management.

Remote Management			-
Enable ERM:	🔘 disabled 💿 enabled		
ERM Server IP:	118.143.69.118		
ERM Server Port:	50000		
Account:	123.test	No account? Register now!	
Password:	•••••		
Status:	ок		
			Submit

Remote Management is used to manage the GoIP Gateways located in other physical locations. Network must be available for the gateway to communicate with ERM Server.

If ERM is enabled and correctly set, the GoIP will register to ERM server and set up the connection between itself and ERM server. Administrator can login ERM server and monitor all the registered GoIP Gateways. Commands can also be sent from ETMS server to certain gateway for management.

The configuration fields are specified as following:

- Enable ERM: Specify whether enable ETMS registration or not.
 Option values are Enabled/Disabled.
- ERM Server IP: Specify the ERM Server address.
- ERM Server Port: Specify the ERM server port.
- Account: Specify the account which create in the ERM.
- Password: Specify the password which create in the ERM.
- Staus: Specify the registration status.

4.3.3 File Management

The screenshot below shows file list. This is gdb file for checking the software bug.

File List					Collapse
Seq.	Filename	Modification Time	Туре	Size	Operations



4.3.4 System Update

The screenshot below shows the operation mode for system update or restore.

File Type:	Firmware -		
File Name:		浏览	Submit Cancel
Export Configuration	on		Collapse
Click "Export" button to ex	port the configuration.		Export
Restore To Factor	,		

The user can update firmware,export the configuration,restore system to factory settings according to requirements.

4.4 Debugging tools

4.4.1 Test Network

nual Ping		🕒 Colla
IP Address: Packet Size: Packet Count:	* Default is 56 bytes * Default is 4,0 means always ping	
sult		Start
		~
		^
		^

Fields are specified as following:

- IP Address: Specify the ip address.
- Packet Size: Specify the packet size.
- Packet Count: Specify the packet count.

4.4.2 Log System

Log file

File			 Collapse
Logfile Count:	20	~	* The size of single logfile is 1MB.
Dying Msg Size:	32KB	~	* The dying message(dyingmsg.log) size in KB.
GDB File Count:	10	~	Submit Cancel

- Logfile count: specify the log file count.
- Dying msg size: specify the dying message size.
- GDB file count: specify the gdb file count.

Log modules

Log Modules				(Collapse
	RC	LED	SESP		
				Submit	Cancel

This is for debugging when need log files.

4.5 Running Status

4.5.1 System Status

The screenshot below shows the system status. It includes WAN status and others. The reported information can help you get the system status detail in a fast, simple way.

N Status				Collaps
Connection Mode:	Static	Connection Status:	Connected	
IP:	192.168.1.234	Default Gateway	192.168.1.1	
DNS Server IP:	192.168.1.1	MAC Address:	00-00-00-01-02-03	
er Status				Collapse
er Status				Collaps
er Status ETMS Status:		ERM Status:		Collapse
er Status ETMS Status: Current Time:	2015-02-07 22:04:20 UTC+8	ERM Status: Running Time:	8 Hr 56 Min 51 Sec	 Collapse
ETMS Status ETMS Status: Current Time: Hardware Version:	2015-02-07 22:04:20 UTC+8	ERM Status: Running Time: Firmware Version:	8 Hr 56 Min 51 Sec 0.0.0	 Collapse

4.5.2 Call Status

Call Stat	tus List					Collapse
Port	Module	Туре	State	Duration	Balance	Description
1			IDLE	08:57:35	0.00	
2			IDLE	08:57:35	0.00	
3			IDLE	08:57:35	0.00	
4			IDLE	08:57:35	0.00	
5			IDLE	08:57:35	0.00	

The status columns are specified as following:

- Port: the physical port sequence.
- Module: the gateway port which bind with the simpool.

- Type: specify the wireless module type.
- State: specify the call status.
- Duration: specify the call duration
- Balance: specify the current balance of the card.
- Description: Specify the card status.

4.5.3 Call Statistics

all Stati	stics List						Last Hour's	🗸 🕢 Collap
Port	Calls	Alerted	Connected	Con Fails	PDD	ACD	ASR	Tot CallDur
Total	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0

The status columns are specified as following:

- Port : The physical port sequence.
- Calls: Specify the total calls made out from this port since the last start up of system.
- Alerted: Specify the total number of responded alerting message for all the calls made.
- Connected: Specify the total number of answer from destination for all the calls made.
- Consecutive Fails: Specify the consecutive fail calls.

- PDD: Specify the average duration to receive the response of alerting message.
- ACD: Specify the average duration of talking between caller and callee.
- ASR: Specify the percentage of successful call for which there is a responded alerting messaged returned.
- Tot calldur: specify total call duration.

4.6 Save and Reboot

Generally, any modification should require the reboot of simpool to bring the modification into effect. However, single Save without Reboot is also frequently used to save the modifications which will be effective on next reboot of simpool.

perations			Collapse
Select Operation:	Save	Reboot	

The screenshot above shows the operation buttons. Button Save is used to save all the modifications while button reboot is used to save modifications first and then reboot device immediately.