

CSP-IP

CSP-GPRS

CSP-IPGPRS

Capture Communicator Modules

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1. Introduction

CSP-MODULE is a PSTN Converter, which upgrades your existing Control Panel to send reporting via the internet or GSM/GPRS instead of PSTN.

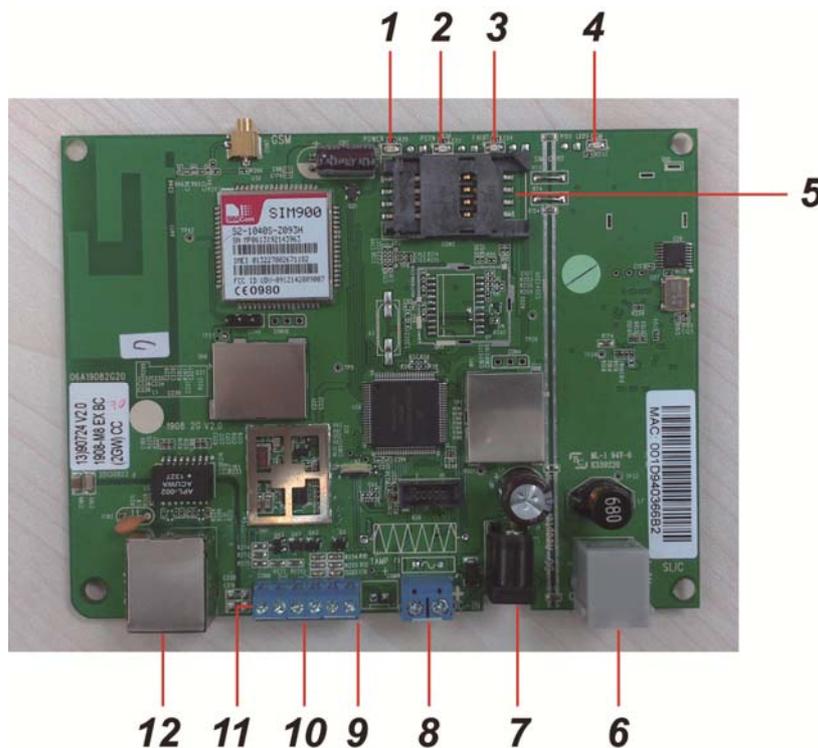
CSP-IP – PSTN to IP Converter

CSP-IPGPRS – PSTN to IP+GPRS Converter

Please refer to later chapters for information on setting up and configuring the system over the Web Page in more detail.

2. Application Overview

2.1. Identifying the Parts



1. GSM LED (Red) (CSP-IPGPRS only)

- ON: Connecting to GSM Network (When CSP-MODULE is Powered Up) / Reporting
- Flash : GSM Normal

2. Fault LED (Amber)

- ON: Fault
- OFF: Normal

3. PSTN Panel LED (Blue)

- ON: PSTN Panel is on hook
- OFF: PSTN Pane is off hook

4. Power LED (Green)

- ON: CSP-MODULE is powered on
- OFF: CSP-MODULE is powered off

5. SIM Card Base (CSP-IPGPRS only)

6. Phone Jack (RJ-11)

Connects to the Phone Jack marked "Line" on the PSTN Control Panel

7. DC Jack

DC 12V 1A switching power connection (Cannot be used with DC Input Terminal at the same time)

8. DC Input Connection Terminal

DC 12V 1A Power input (Cannot be used with DC Jack at the same time)

9. Input Connection Terminal 1 – Left to right Gnd, In (Gnd)

10. Input Connection Terminal 2 – Left to right Gnd, In (Gnd)

11. Output Connection Terminal 3 (DC 12V) – Left to right Gnd +12V Out

12. Internet Connection (RJ-45)

2.2. The Power Supply

AC switching power is required to connect to a wall outlet. Be sure only to use an adapter with the appropriate AC voltage rating to prevent component damage. A DC 12V 1A switching power is generally used to power the converter.

2.3. System Requirements

The system requires a TCP/IP network environment. CSP-module can be attached into your Local Area Network (LAN).

To install the CD Wizard, your computer must have:

- Microsoft Windows 98, ME, NT4.0, 2000, XP, Vista, 7, or 8 operating system.
- Microsoft Internet Explorer 5.x, or later and Mozilla Firefox 1.0 compatible.
- CD-ROM drive
- CPU: Intel Pentium II 266MHz or above
- Memory: 32MB (64MB recommended)
- VGA resolution: 800x600 or above

3. Getting Started

In order to use CSP-module with the existing PSTN Control Panel, it must be programmed via LAN first. Please follow the steps below to setup and program your CSP-module

Step 1. Connect the telephone line from the PSTN Control Panel's phone jack to CSP-module's phone jack.

Step 2. Plug-in the LAN/Internet connection cable into the Internet Port (RJ-45) on CSP-module.

Step 3. For CSP-IPGPRS, insert the SIM Card into the SIM Card base.

<NOTE>

Before inserting the SIM card, please make sure the SIM Card PIN code is disabled.

Step 4. Connect the DC 12V 1A switching power to a Wall Outlet and the other end to CSP-module.

Finder Software - http://www.csproducts.co.nz/Technical/Finder_v1.6.zip

3.1 Running the Finder software

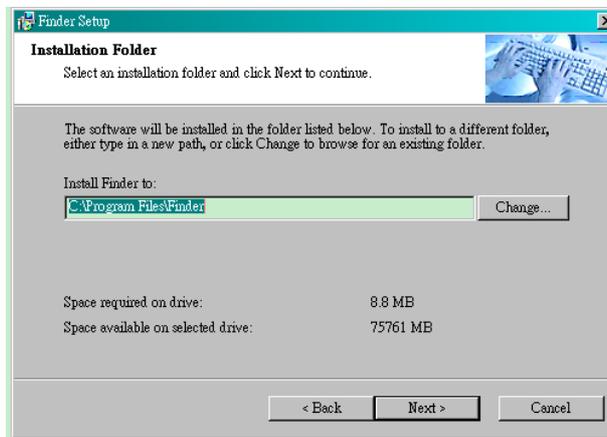
To install the **Finder** software

Step 1. Insert the supplied CD-ROM into your CD-ROM drive

Step 2. Find the **FinderV1.x** software icon in the CD-ROM.

Step 3. Double click on the **FinderV1.x** to initiate the installation.

Step 5. Click **Next** to re-name the shortcut folder, if no renaming is required; please click **Next** to get ready for the installation process.

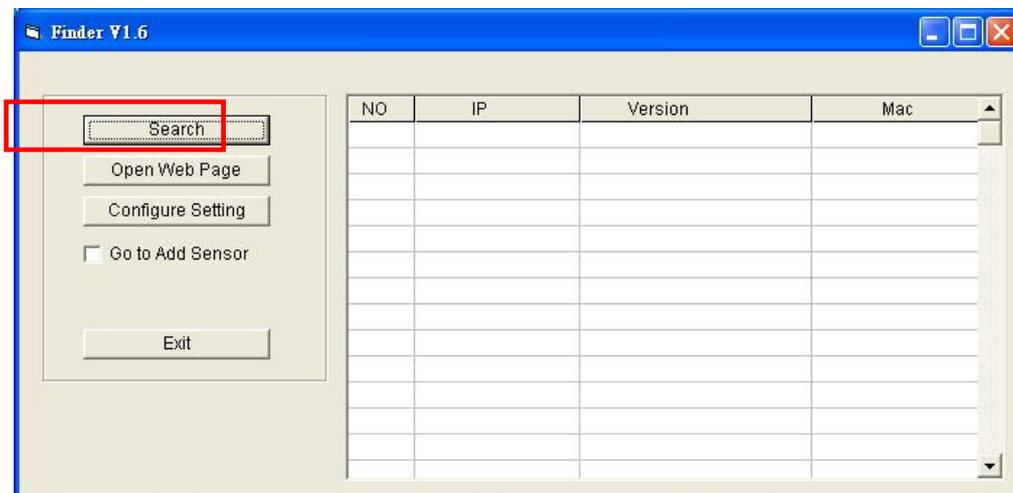


Step 6. Another click on **Next** to begin the Installation; once the installation is complete, click **Finish** to confirm.

Step 7. A new icon will be displayed on your desktop.

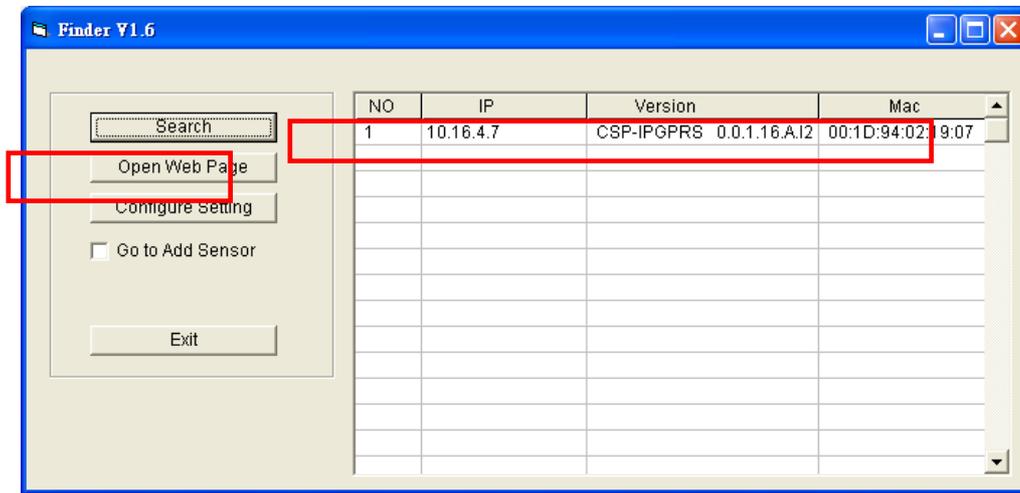


Step 8. Double click on the **Finder.exe** to start the installation. The following screen will be displayed:



Step 9. Click on **Search**, It will start searching for recognized IP address within the Local Network Service.

Step 10. You will be able to locate the current CSP-module IP address among the list, displayed with MAC Address and Firmware version.

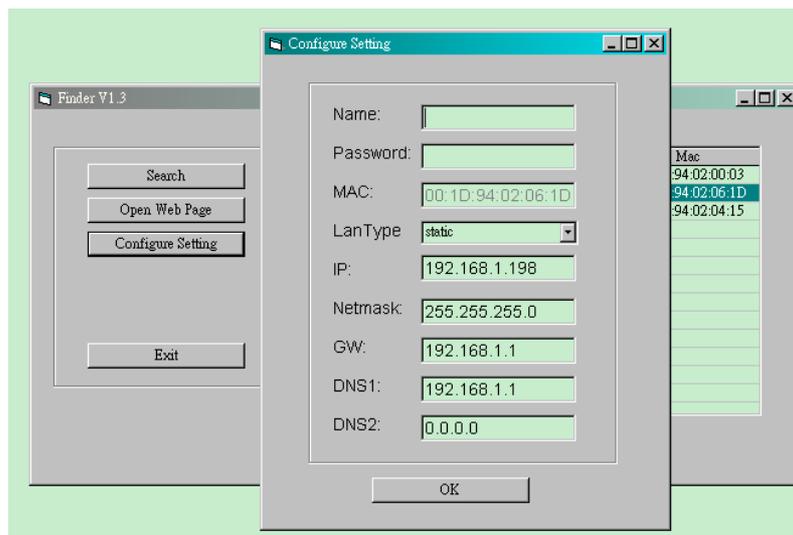


Step 11. Once CSP-MODULE information is identified, click on **Open Web Page**, or double click on the CSP-MODULE info to open the IP Security System Web page.

3.2 Configure Setting

The Configure setting is for you to enter the Internet data manually.

Step 1. Click on **Configure Setting**, the following window will display:



Step 2. Enter the internet data and CSP-module's web user name and password.

(Default) User Name: **admin**

(Default) Password: **admin1234**

Step 3. Click on **OK** to confirm. When the username and password are correct, a window will display:

Status: Configure success!!

4. Connecting to Webpage

The webpage can be opened by Finder (please refer to section 3.1) or by manually opening with an internet browser. Enter CSP-module's IP address in your browser's address field and click on **GO**. You will enter the Control Panel webpage. The Control Panel's firmware version and MAC address will be displayed.

5. System Configuration

5.1. Panel

The Panel page allows you to program panel setting for reporting.

[Welcome] **Panel** [GSM/GPRS] [Network] [Report] [Administrator] [Firmware]

Panel Setting

Auto Check-in: (Sec), Offset Period: 60 (Sec)
The CID event for Auto Check-in:
The CID group code for panel's report:
The CID zone code for panel itself:

Input 1: CID Event Code: Zone:
Input 2: CID Event Code: Zone:

Output: Initialized Status: Triggered Status: Pulse Width:
Triggering CID Event: Restored CID Event: (Latch only)
Examples: Active CID Event="1130&1110", Restored CID Event="3130&3110"

Timezone:
Date & Time (yyyy/MM/dd hh:mm): / / :

Keep Network Settings

Step 1. Click on **Panel** to enter the Panel Setting page.

- **Auto Check-in**

This is for you to set the interval time the Converter waits before making a regular check-in report

- ☞ **Interval:** Set the interval waiting time by entering the delay time in seconds in the blank field.
- ☞ **Offset Period:** This is to set the time delay before the first “**Auto Check-in Report**” report to be made. Enter the delay time in seconds in the blank field.

- **CID Code**

- ☞ **Auto Check-in Event Code:** Enter the CID event code to be reported when Converter makes an Auto Check-in report.
- ☞ **CID Group:** Enter a group code which will be included in the panel’s CID Auto Check-in report to identify the converter’s group.
- ☞ **CID Zone:** Enter a zone code which will be included in the panel’s CID Auto Check-in report to identify the converter’s zone.

- **Input 1/2**

The Input function corresponds to the Input Connection Terminal on the CSP-module board. When a wired device is attached to the Input Terminal, you can set the Input Connection to be triggered according to the following setting.

- ☞ **Disable/Normal Open/Normal Close:**

- Disabled** – The Input function is not activated.

- Normal Open** – The Input Connection will be triggered when the device forming the open loop is closed.

- Normal Close** – The Input Connection will be triggered when the device forming the close loop is opened.

- ☞ **CID Event Code:** Enter the CID event code you want CSP-module to report when the Input Connection is triggered. This field cannot be left blank if you want to be able to send report when Input Terminal 1/2 is activated.

- ☞ **Zone:** Enter the Zone number for the Input Connection to be recognized in a report. This field cannot be left blank if you want to be able to send report when Input Terminal 1/2 is activated.

- **Output**

The output function corresponds to the Output Connection Terminal on the CSP-module board. When a wired device is attached to the Output Terminal, you can control the wired device according to Output Settings.

- ☞ **Initialized Status:** This is the status of the output terminal when the converter is powered up.

- ☞ **Triggered Status:** This is the status of the output terminal will change to when it is triggered by the event code set below.

- ☞ **Pulse Width:** This is the duration the Output Terminal will remain in Triggered Status. After the time expires, the Output Terminal will switch back to Initialized Status. If set to Latch, the Output Terminal will remain under Triggered Status unless a Restored CID Event Code programmed below is reported.

- ☞ **Triggering CID Event:** Set a CID event code which will trigger the Output Terminal to change from Initialized Status to Triggered Status when reported. This event code must be entered in 4-digit CID event code format. Up to 4 event codes can be entered, separated by "&" mark. For example: "1110&1130"

- ☞ **Restored CID Event:** This function is only used when Pulse Width is set to **Latch**. Set a CID event code which will trigger the Output Terminal to change back from Triggered Status to Initialized Status after the Output Terminal is activated by Triggering Event Code and latched. This event code must be entered in 4-digit CID event code format. Up to 4 event codes can be entered, separated by "&" mark. For example: "3110&3130"

Step 2. After completing the setting above, click “**Set**” to confirm the change, or click “**Reset**” to undo the change.

- **Time Setting**

This is for you to set Control Panel time.

☞ **Time Zone:** Set your time zone.

☞ **Date and Time:** Set your current date and time from year to minute.

Step 3. After changing the Time setting, click “**Adjust Time**” to confirm the change.

- **Reset**

Clicking “Reset” will reset CSP-module.

- **Factory Reset**

Clicking “Factory Reset” will return all CSP-module setting to factory default value. You can tick the “Keep Network Setting” box before Factory reset to keep your network setting unchanged.

5.2. GSM/GPRS

The GSM/GPRS page display your current GSM module status allows you to program GPRS setting configuration for reporting. (This page is disabled for CSP-IP)

[\[Welcome\]](#) [\[Panel\]](#) [\[GSM/GPRS\]](#) [\[Network\]](#) [\[Report\]](#) [\[Administrator\]](#) [\[Firmware\]](#)

GSM Setting

GSM Status: No Signal
IMEI:
IMSI:

GPRS APN: User: Password:

SMS Control Setting

Keyword: Access Code

Step 1. Click on **GSM/GPRS** to enter the GSM/GPRS setting page.

- **GSM Status / IMEI / IMSI**

Your GSM module status will be displayed here.

- **GPRS**

In order use GPRS for reporting, this section need to be programmed before reporting.

-  **APN (Access Point) Name**

It is the name of an access point for GPRS. Please inquire your service provider for an APN. When APN is set, the system becomes valid for internet connection.

-  **User Name**

If required, enter the user name used for GPRS APN. Please inquire your service provider for information.

-  **Password**

If required, enter the password used for GPRS APN. Please inquire your service provider for information.

- **SMS Keyword and Access Code**

The SMS Keyword and Access Code are used to receive SMS remote commands. (Please refer to **5.7. SMS Remote Command** for detail.)

Step 2. After finishing all setting, click on **“Submit”** to confirm the change, or click **“Reset”** to undo the change.

- **Reset GSM** Use this function to reset your GSM module if required.

5.3. Network

The Network page allows you to program network configuration for reporting.

Default IP address is 192.168.254.100

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Network Setting

DHCP:	<input type="text" value="On"/>
IP Address:	<input type="text" value="192.168.254.100"/>
Subnet Mask:	<input type="text" value="255.255.255.0"/>
Default Gateway:	<input type="text" value="192.168.254.254"/>
Default DNS:	<input type="text" value="192.168.254.101"/>
SNTP:	<input type="text" value="pool.ntp.org"/> Interval: <input type="text" value="6 hours"/>
	<input type="button" value="Set"/> <input type="button" value="Reset"/>

Step 1. Click on **Network** to enter the Network Setting page.

- **DHCP**

- ☞ **On:** If DHCP is set to On, the Network will obtain the IP address automatically with a valid Network DHCP Server. Therefore, you won't need to do any settings. You can only set DHCP to On if your Network environment supports DHCP. It will automatically generate all information.
- ☞ **Off:** If DHCP is set to Off, you need to enter the Network information manually for IP Address, Subnet mask, Default gateway, Default DNS. Please make sure that you have obtained all required values according to your Network environment. Please contact your local service provider for more information.

- **SNTP**

SNTP setting is for you to enter an internet time server to synchronize and update Control Panel time automatically according to set interval times. The factory default is set to pool.ntp.org.

Step 2. After changing the Network setting, click "**Submit**" to confirm the change, or click "**Reset**" to undo the change.

5.4. Report

The Report page allows you to set your report destinations.

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ARC Connection Setting

Direct Handshake Authentication with ARC
 Store and Forward

The substitute account for the control panel

The substitute account : (The character's range "0123456789BCDEF")

Report Setting

Index	To	Group
1	<input type="text" value="GPRS://4322@59.124.230.220:53022"/>	<input type="text" value="1"/>
2	<input type="text"/>	<input type="text" value="1"/>
3	<input type="text"/>	<input type="text" value="1"/>
4	<input type="text"/>	<input type="text" value="1"/>
5	<input type="text"/>	<input type="text" value="1"/>
6	<input type="text"/>	<input type="text" value="1"/>

Note :
report via IP in CSV format as `medium://account@address:port/format/csv/user/password/`
report via GPRS in CSV format as `IP://1234@202.56.34.126:1062/csv/Nam3/Pa55w0rd/`
User and Password provided by Monitoring Station.If none provided use /user/password/

Step 1. Click on **Report** to enter the Report Setting page.

Step 2. Select ARC Connection Setting.

5.4.1. ARC Connection Setting

The **ARC Connection Setting** determines how CSP-module processes the data received from your PSTN panel and send the report.

- **Direct Handshake Authentication with ARC:** When this option is selected, upon receiving report from the PSTN panel, CSP-module will report the event received according to Report Setting below. After receiving handshake authentication from Alarm Receiving Center (ARC), CSP-module will confirm the handshake with the PSTN panel to notify the panel that reporting is successful. If reporting is unsuccessful, CSP-module will notify the PSTN panel accordingly (**Factory Default**)
- **Store and Forward:** When this option is selected, upon receiving report from the PSTN panel, CSP-module will first confirm with the PSTN panel that the reporting is successful, then report the event received according to Report Setting below. If the reporting is unsuccessful, CSP-module will not notify the PSTN panel.

5.4.2. The substitute account for control panel

The account number enter in this field will be used to replace the PSTN Control Panel's own account number when the Converter forwards the report. Enter the account number in the blank field. Available input ranges from 0~9 and B~F

5.4.3. Report Setting

The Report Setting is for you to program the report destinations. When programming Report Setting, please refer to ARC Connection Setting above to determine the report format you should use.

- **Report Format:**

- **ARS Software Receiver**

- ☞ **IP reporting in CID format to the ARCSOFTWARE:**

- Reporting destination format: ip://Account@Server IP:Port/CID

- For Example: ip://6543@59.124.123.22:8765/CID

- ☞ **GPRS reporting in CID format to the ARC Software: (Only for CSP-IPGPRS)**

- Reporting destination format: gprs://Account@Server IP:Port/CID

- For Example: gprs://6543@59.124.123.22:8765/CID

- ☞ **IP reporting in SIA format to the ARS Software:**

- Reporting destination format: ip://Account@Server IP:Port/SIA

- For Example: ip://6543@59.124.123.22:8765/SIA

- ☞ **GPRS reporting in SIA format to the ARS Software: (Only for CSP-IPGPRS)**

- Reporting destination format: gprs://Account@Server IP:Port/SIA

- For Example: gprs://6543@59.124.123.22:8765/SIA

- **To any CSV Receiver**

- ☞ **IP reporting in CSV format to any CSV receiver:**

- Reporting destination format: ip://Account@Server IP:Port/CSV

- For Example: ip://6543@59.124.123.22:8765/CSV

- ☞ **GPRS reporting in CSV format to any CSV receiver: (Only for CSP-IPGPRS)**

- Reporting destination format: gprs://Account@Server IP:Port/CSV

- For Example: gprs://6543@59.124.123.22:8765/CSV

<NOTE>

- ☞ The account number entered in the report setting is only for reporting CSP-MODULE's /Input 1~2 trigger. For any events received from the PSTN panel, the report will be sent with PSTN panel account number

For example: If the report setting is set to gprs://0001@59.124.123.66:50123/CID. When CSP-MODULE Input Terminal 1 is triggered, the event will be reported with account number of 0001. However if the PSTN panel sends a report, the report will be sent with the account number programmed in the PSTN panel instead.

- **Group:** Select a group number for the report destination.

Multiple Group setting is only applicable when Connection Setting is set to **Store and Forward**.

For **Direct Handshake Authentication with ARC**, use only Group 1.

Reporting sequence goes from Group 1 → Group 2 → Group 3 → Group 4 → Group 5. Destinations

assigned to Group 1 will be reported to first, those assigned to Group 2 will be reported to next, and the like.

<NOTE>

- ☞ Each group can have more than one reporting destination. If one group has multiple destinations, and reporting to one of them is successful, CSP-MODULE will consider reporting to this group successful and move on to the next group without trying rest of the reporting destinations. For example, if Group 1 has 3 reporting destinations, when reporting to the first destination is successful, CSP-MODULE will move on to Group 2 without trying rest of the 2 reporting destinations in Group 1.
- ☞ The reporting will go through a group's reporting destinations according to the numerical sequence to which the phone numbers are assigned. For example, when phone numbers 4 and 8 are assigned to Group 2, the reporting will dial phone number 4 first and then 8.
- ☞ If reporting to all destination in a group fails, CSP-MODULE will retry reporting to the group for a maximum of 3 times before moving on to the next group.
- ☞ One complete round of report means going from Group 1 → Group 2 → Group 3 → Group 4 → and going through all the reporting groups. If one complete round of report has been completed and no reporting destination could be reached successfully, CSP-MODULE will retry the report until one destination has been reached successfully, then stop reporting.

5.5. Administrator

The Administrator page is for you to set the user name and password you used to access CSP-MODULE webpage.

[\[Welcome\]](#) [\[Panel\]](#) [\[GSM/GPRS\]](#) [\[Network\]](#) [\[Report\]](#) [\[Administrator\]](#) [\[Firmware\]](#)

Administrator Setting

User name:

Password:

Repeat Password:

- Step 1.** To change your User Name/ Password, enter the new User Name and Password in the blank field.
- Step 2.** Enter the password again in Repeat Password field.
- Step 3.** Click Submit to confirm the change.

5.6. Firmware

The Firmware page is for you to update the firmware of CSP-MODULE.

[\[Welcome\]](#) [\[Panel\]](#) [\[GSM/GPRS\]](#) [\[Network\]](#) [\[Report\]](#) [\[Administrator\]](#) [\[Firmware\]](#)

Firmware Upgrade

File: No file chosen

- Step 1.** Click on **Firmware** to enter the Firmware upgrade page.
- Step 2.** Click on **Browse**, then select the firmware file in your computer.
- Step 3.** Click **Submit** to upload the new firmware to CSP-MODULE. Do not power off CSP-MODULE when firmware update is in progress.

5.7. SMS Remote Command

CSP-IPGPRS can be programmed remotely by SMS message. (CSP-IP is not available for SMS command)

- **SMS Message Format:**

(SMS Keyword)(Space)(Access Code)(SMS Command):(value1),(value2),....

SMS Command Table (Default SMS Keyword set as **PROG**, Access Code as **1111**)

Function	Command	Value	Example:
Set New SMS Keyword	PINK	New SMS Keyword	PROG 111 PINK:JOHN
Set New Access Code	PINC	New Access Code	PROG 1111 PINC:1234 (1234 will be set as new Access Code)
Set Report Destination	RPTN	1: Reporting No.(1~8) 2: Report destination according to report setting format 3. Enter A 4. Group No, (1~5)	PROG 1111 RPTN:1, ip://6543@59.124.123.22:8765/CID,a,1
Set Auto check-in	RPDS	1. Auto-checkin time in hours: (0,4,6,8,12,24,48,72,96,120,144,168 0 = disable) 2. Offset time in hours (1,2,4,6,8) 3. CID Zone code 4. CID Group Code	PROG 1111 RPDS: 12,1,01,01
Set Input Terminal	IPUT	1: Index (1 or 2) 2: Set status (0 = disable, 1 = Normal Open, 2 = Normal Close) 3: CID Event Code 4: CID Zone number	PROG 1111 IPUT:1,1,131,1
Set Output Terminal	OPUT	1: Index (1) 2: Initialized Status (1 = On, 2 = Off) 3: Triggered Status (0 = Toggle, 1 = On, 2 = Off) 4: Pulse Width (0 = Latch, 1 = 100Ms, 2 = 200Ms, 3= 300Ms) 5: Triggering Event Code 6: Restoring Event Code	PROG 1111 OPUT:1,2,1,10,1130&1110, 3130&3110
Inquire Report Setting	RPT?		PROG 1111 RPT?:
Inquire Auto Check-in / Offset Period Setting	RPD?		PROG 1111 RPD?:

Inquire GSM RSSI	GSM?		PROG 1111 GSM?:
Inquire Input Terminal Setting	IPU?		PROG 1111 IPU?:
Inquire Output Terminal Setting	OPU?		PROG 1111 OPU?:1

- **SMS Confirmation Message:**

If CSP-MODULE successfully receives the SMS command, it will reply in the following format:

(SMS Command):OK

For SMS command which inquires CSP-MODULE setting, CSP-MODULE will reply in the same format as the SMS command message.