

Hot-Swap Function for GSM Gateway Modules



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AddPac Technology

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GSM Gateway Hardware Platform

GSM Gateway Hardware Platform

| Model | AP-GS1500 | AP-GS2000 | AP-GS2500 | AP-GS3000 | AP-GS5000 |
|-------------------|---|--|---|---|---|
| |  |  |  |  |  |
| Available Modules | AP-N1-GSM4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 | AP-N1-GSM4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1 | AP-N1-GSM4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1 | AP-N1-GSM4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1 | AP-N1-GSM8 AP-N1-FXS8 AP-N1-FXO8 AP-N1-E1 AP-N1-2E1 |
| GSM Channel | Up to 8 Channel | Up to 12 Channel | Up to 16 Channel | Up to 36 Channel | Up to 80 Channel |
| GSM Antenna | One(1) / 4 Channel GSM Module (AP-N1-GSM4) | One(1) / 4 Channel GSM Module (AP-N1-GSM4) | One(1) / 4 Channel GSM Module (AP-N1-GSM4) | One(1) / 4 Channel GSM Module (AP-N1-GSM4) | Two(2) / 8 Channel GSM Module(AP-N1-GSM8) |
| Module Slot | Two(2) Module Slots for GSM | Three(3) Module Slots for GSM | Four(4) Module Slots for GSM | Nine(9) Module Slots for GSM, E1/T1 Module Slot | Ten(10) Module Slots for GSM, E1/T1 Module Slot |
| LAN Port | 2 | 2 | 2 | 2 | 2 |
| Console | 1 | 1 | 1 | 1 | 1 |
| Power | Single PSU | Single PSU | Single PSU | Single PSU | Dual PSU (module) |



GSM & VoIP Modules

GSM & VoIP Modules (Hot-Swap)

High-end
DSP

AP-GS3000 Voice Modules

AP-N1-GSM4 4-Port GSM Module



AP-N1-CDMA4 4-Port CDMA Module



AP-N1-FXS8 8-Port FXS Module



AP-N1-FXO8 8-Port FXO Module



AP-N1-FXS4O4 4-Port FXS&4-Port FXO Module



AP-N1-E1 1-Port Digital E1/T1 Module



GSM & VoIP Modules (Hot-Swap)

High-end
DSP

AP-GS5000 Voice Modules

AP-N1-GSM8 8-Port GSM Module



AP-N1-FXS8 8-Port FXS Module



AP-N1-FXO8 8-Port FXO Module



AP-N1-2E1 2-Port Digital E1/T1 Module



Hot-Swap Function Overview

High-end
DSP

- Hot-Swap Function

- To insert/delete a new VoIP module while in-service state.
- Support push button switch for a VoIP module Hot-Swap
- Support status check LED

Example : AP-GS3000 GSM Gateway



Hot-Swap Status LED

Push Button Switch for Hot-Swap

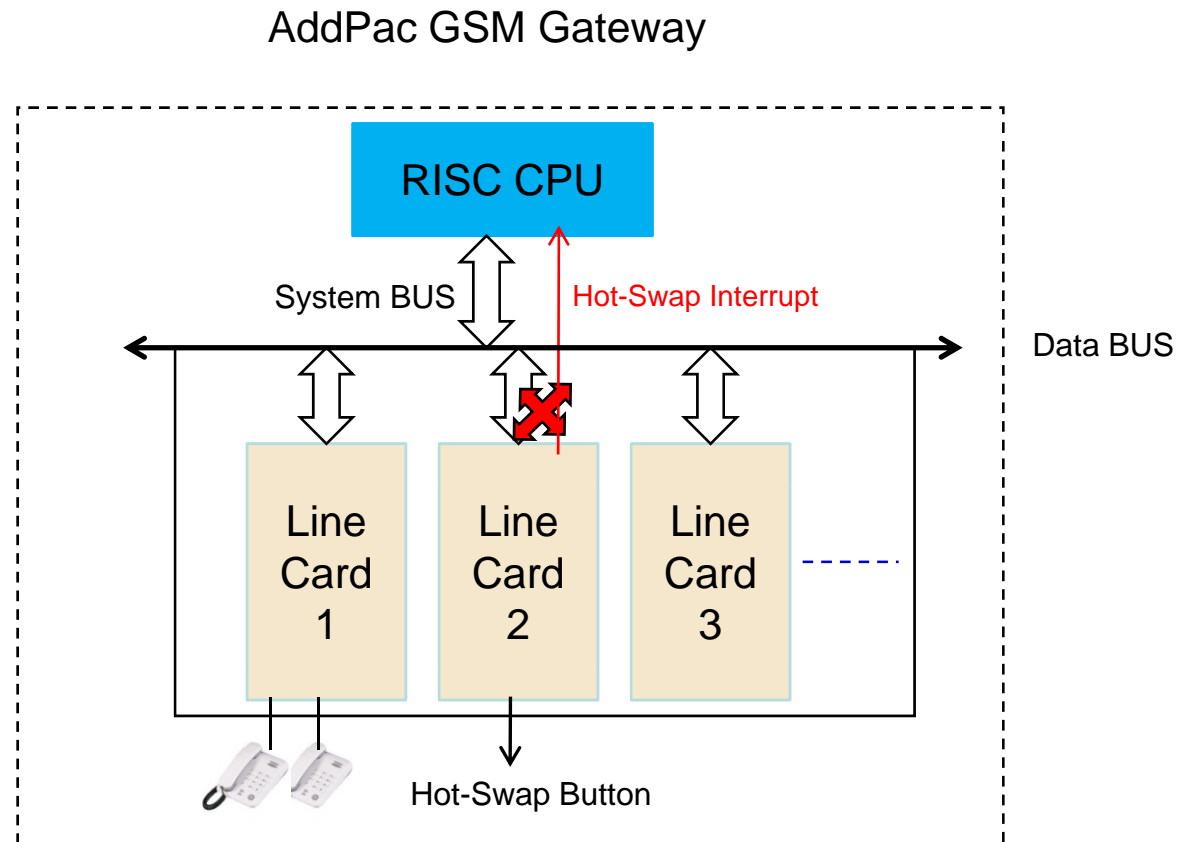
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System Architecture for Hot-Swap Function

Hot-Swap Procedure

1. Hot-Swap LED ON
2. Push Hot-Swap Button
3. CPU Hot-Swap Register Polling
4. Bit High -> Low
5. Terminate Card Program
6. Hot-Swap LED OFF



Example : AP-GS3000 GSM Module Exchange

| | | |
|---|---|---|
| 1 |  | <p><Push Hot-Swap Button> Press Hot-Swap button for 3 seconds. LED will be turned off to remove the module.</p> |
| 2 |  | <p><Eject Module> Check the status of LED OFF. You may remove the module from VoIP Gateway safely.</p> |
| 3 |  | <p><Insert Module> You may install the module in VoIP gateway safely.</p> |

GSM Gateway Series

Thank you!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)

FAX +82.2.568.3847 (KOREA)

E-mail sales@addpac.com