

Hot-Swap Function for GSM Gateway Modules



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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

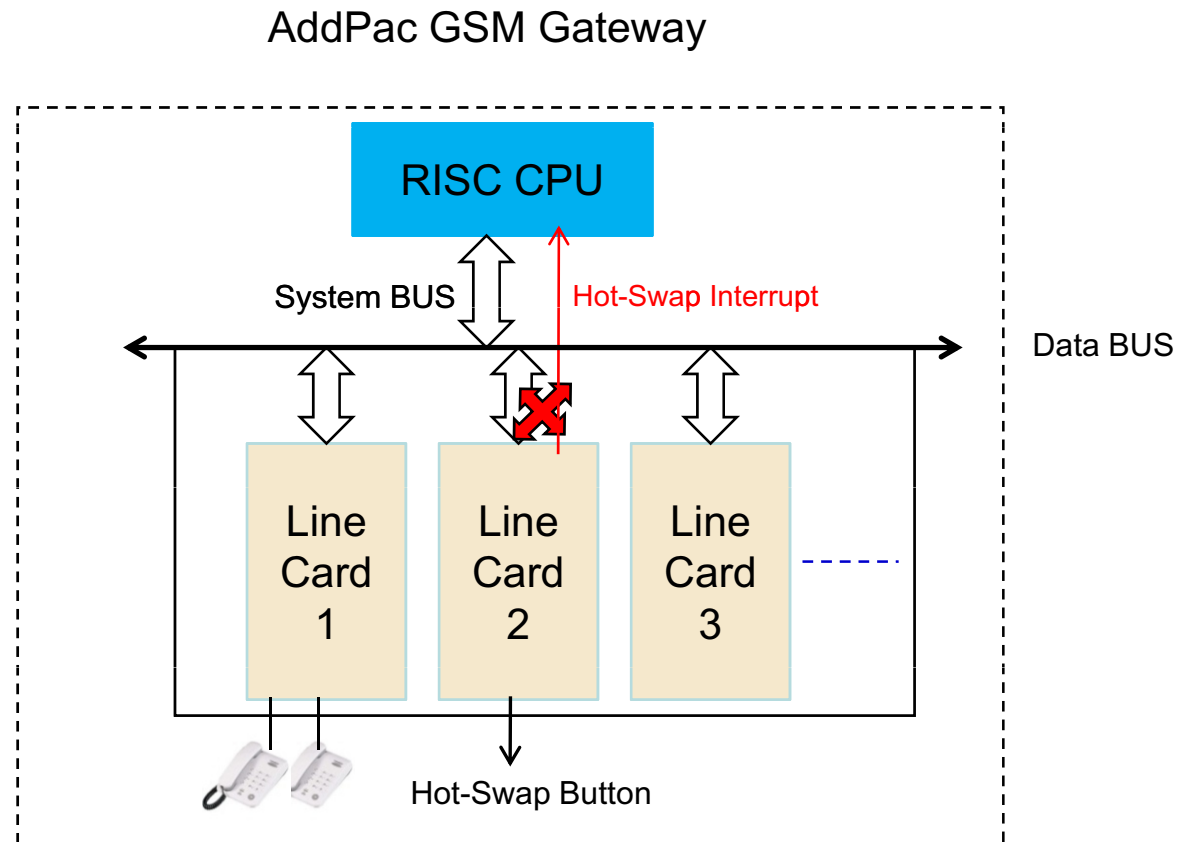
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System Architecture for Hot-Swap Function

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