

识别AS5xxx平台控制器和调制解调器硬件

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简介

本文档旨在快速参考如何识别这些接入服务器的不同类型的控制器和内部调制解调器：

- AS5200
- AS5300
- AS5350
- AS5400
- AS5800
- AS5850

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档不限于特定的软件和硬件版本。

规则

有关文件规则的更多信息请参见“Cisco技术提示规则”。

AS5200

为帮助识别您拥有的调制解调器和承载卡，您需要查看AS5200的后面板。

图1 - Cisco AS5200后面板

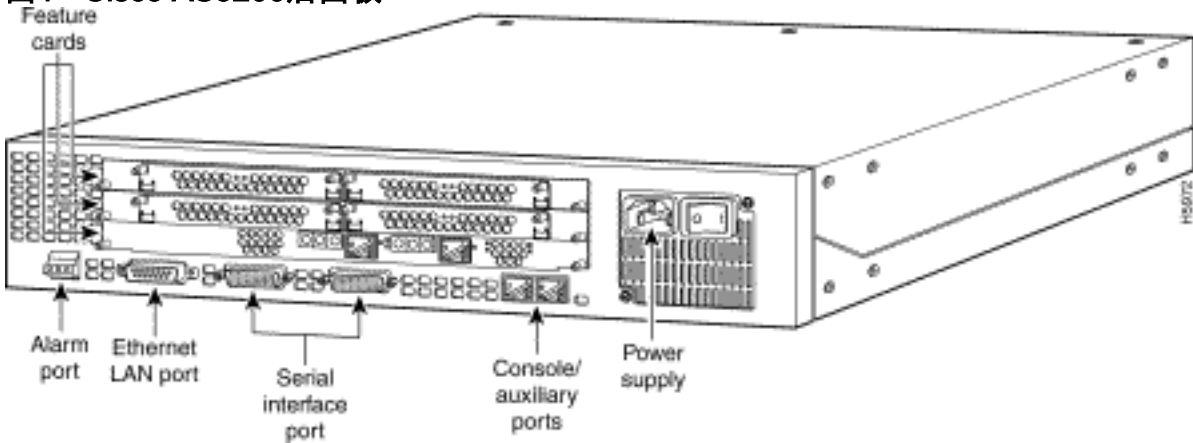


图2 — 双T1/PRI卡双CT1/PRI(AS52-2CT1)

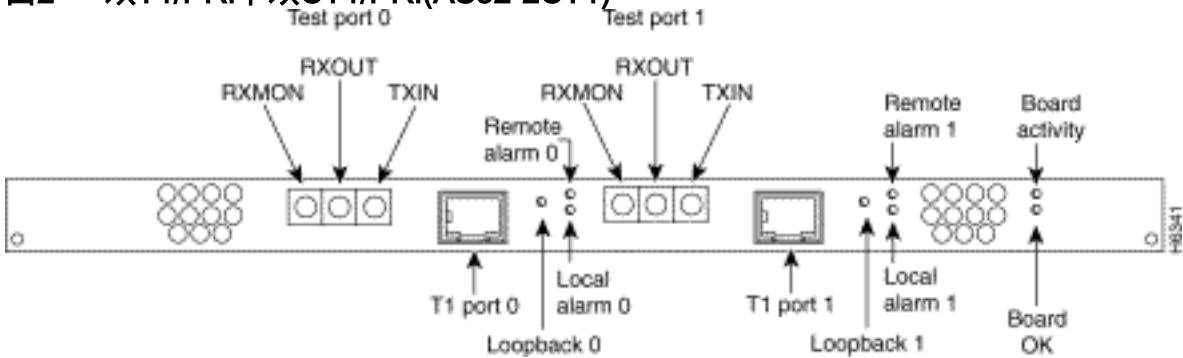


图3 — 双E1/PRI卡(AS52-2CE1-B)

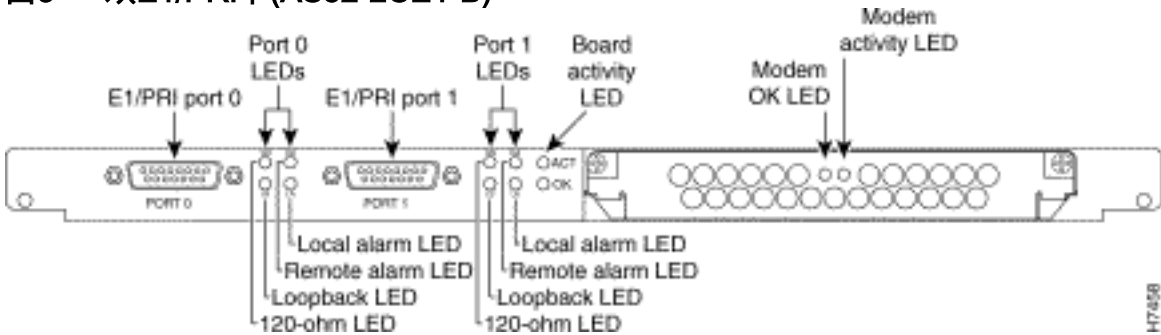
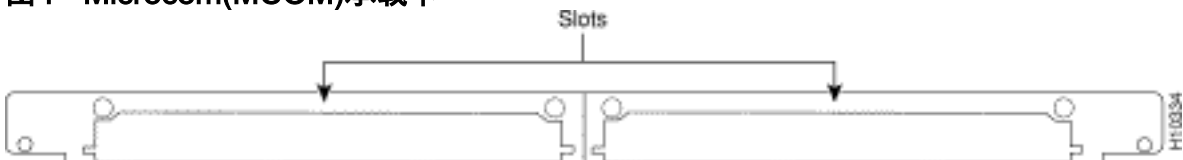


图4 - Microcom(MCOM)承载卡



内部调制解调器

AS5200接入服务器支持以下内部调制解调器模块：

图5 - MCOM V.34 12端口模块(AS52-12-M-V34)

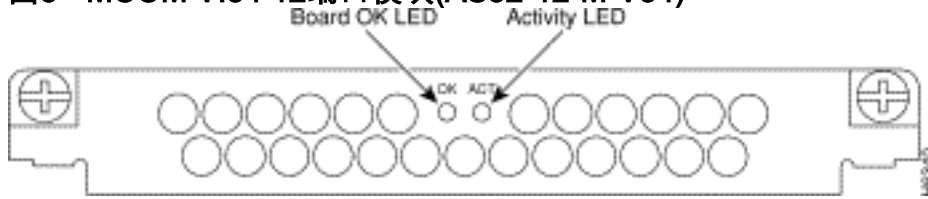


图6 - MCOM 56K 12端口模块(AS52-12-M-56K、AS52-24B-M-56K、AS52-12-M-56K-UPG)

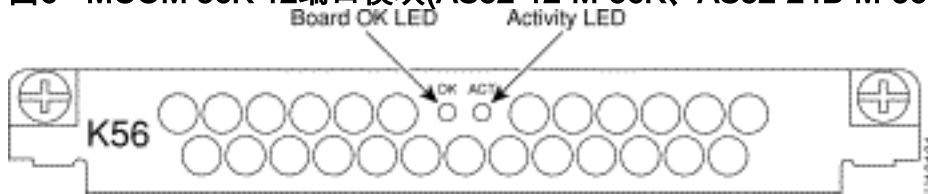
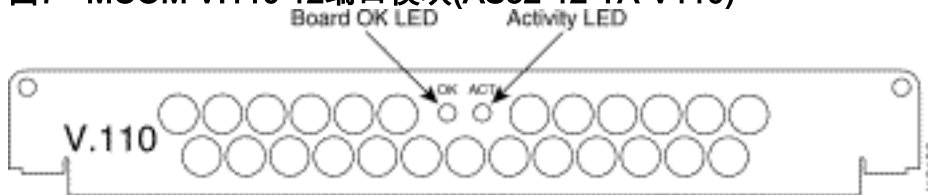


图7 - MCOM V.110 12端口模块(AS52-12-TA-V110)



确定内部MCOM调制解调器的类型 (V.90或V.34)

发出show modem version命令，列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。您还可以确定MCOM调制解调器的硬件是否支持V.90或V.34调制解调器。在show modem version命令输出中，查找Modem board HW version info: vendor_banner=输出指示MCOM调制解调器是V.90还是V.34。如果您有V.34调制解调器，则AS5200不支持高于33.6kbps(V.34)的速度。

输出示例：V.34 (V.34 12端口模块)

```
5200#show modem version

Modem module      Firmware      Boot          DSP
Mdm               Number        Rev           Rev           Rev
1/0                0             1.0(23)      1.0(5)
1/1                0             1.0(23)      1.0(5)
1/2                0             1.0(23)      1.0(5)
1/3                0             1.0(23)      1.0(5)
!--- Output suppressed. 2/22 1 1.0(23) 1.0(5) 2/23 1 1.0(23) 1.0(5) Modem board HW version info:
Slot 1: Carrier card: hw version= 8, number_of_ports= 24, max_modules= 2, max_oob_ports= 2 Modem
Module 0: number_of_modems= 12, option_bits= 1, rev_num= 03.00, vendor_model_number= 01,
vendor_banner= Microcom MNP10 V34 Modem
!--- This indicates that the MCOM modems are only V.34 capable.
```

输出示例：V.90 (56K 12端口模块)

```
5200#show modem version

Modem module      Firmware      Boot          DSP
Mdm               Number        Rev           Rev           Rev
1/0                0             5.0(40)      3.0(4)       22.0/47.0
```

```

1/1          0          5.0(40)          3.0(4)          22.0/47.0
!--- Output suppressed. 1/22 1 5.0(40) 3.0(4) 22.0/47.0 1/23 1 5.0(40) 3.0(4) 22.0/47.0 Modem
board HW version info: Slot 1: Carrier card: hw version= 8, pld= 0, number_of_ports= 24,
max_modules= 2, max_oob_ports= 2 Modem Module 0: number_of_modems= 12, option_bits= 1, rev_num=
03.00, vendor_model_number= 02, vendor_banner= Microcom MNP10 K56 Modem
!--- This indicates that the MCOM modems are V.90 (56K) capable.

```

显示调制解调器代码版本

发出show modem mapping命令，列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。

```

5200#show modem mapping
Slot 1 has Microcom Carrier card.
!--- Slot 1 on this router is an MCOM modem card. Module Firmware Firmware Mdm Number Rev
Filename 1/0 0 5.3(30) IOS-Default !--- Modems 1/0 through 1/23 have MCOM Portware 5.3(30)
loaded on them. !--- This firmware is bundled with Cisco IOS Software. 1/1 0 5.3(30) IOS-Default
1/2 0 5.3(30) IOS-Default 1/3 0 5.3(30) IOS-Default 1/4 0 5.3(30) IOS-Default !--- Output
suppressed. 1/21 1 5.3(30) IOS-Default 1/22 1 5.3(30) IOS-Default 1/23 1 5.3(30) IOS-Default
Firmware-file Version Firmware-Type =====
system:/ucode/mica_board_firmware 2.0.2.0 Mica Boardware system:/ucode/mica_port_firmware
2.7.3.0 Mica Portware system:/ucode/microcom_firmware 5.3.30 Microcom F/W and DSP
bootflash:mcom-modem-code.5.3.30.bin 5.3.30 Microcom F/W and DSP !--- The various modem codes
available to the AS5200. Cisco IOS Software has both !--- Modem ISDN Channel Aggregation (MICA)
and MCOM firmware bundled, even though !--- only MCOM hardware is used in this example. Issue
the firmware location command !--- to use a different firmware.

```

图8 — 带六端口MICA模块(AS52-6DM)的MICA承载卡(AS52-CC-DM)



图9 — 带六端口MICA模块(AS52-6DM)的MICA承载卡(AS52-CC-DM)

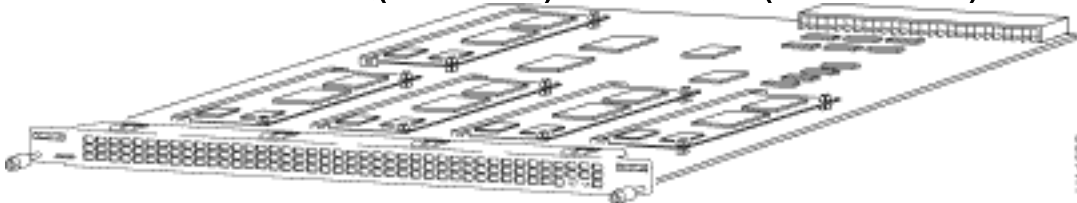
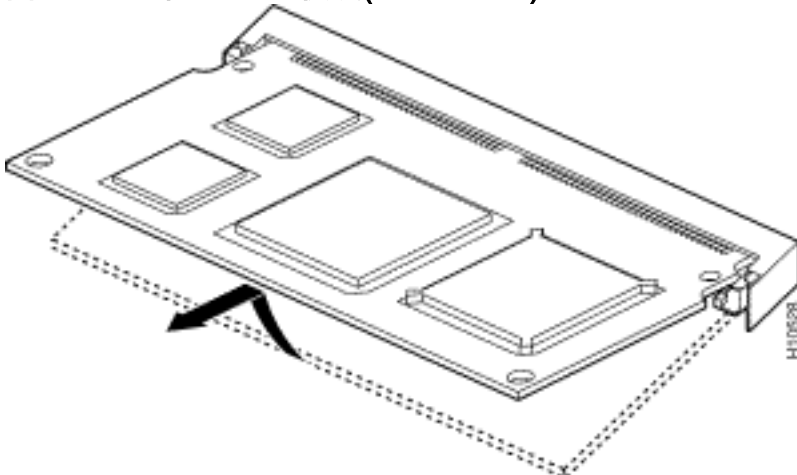


图10 — 六端口MICA模块(AS52-6DM)



MICA调制解调器位于载波卡上。每个6DM有6个调制解调器。

- MICA承载卡，带24个端口：AS52-24DM-CC=
- MICA承载卡，带30个端口：AS52-30DM-CC=
- 六端口MICA模块：6DM=

[通过Cisco IOS软件识别内部MICA承载卡](#)

发出**show modem version**命令，列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。您还可以确定调制解调器主板硬件版本命令输出的部分，查看载息，其中包含载波卡的信息。

[MICA调制解调器V.90](#)

发出**show modem version**命令，确定载波汽车的容量。与MCOM调制解调器不同，MICA调制解调器上的**show modem version**命令不显示**vendor_banner**信息。

```
5200#show modem version
Codes:
d - DSP software download is required for achieving K56flex connections

      Modem module      Firmware      Boot          DSP
Mdm   Number           Rev          Rev           Rev
1/0   0                 2.7.2.1      Rev
1/1   0                 2.7.2.1      Rev
!--- Output suppressed. 1/22 3 2.7.2.1 1/23 3 2.7.2.1 Modem board HW version info: Slot 1:
Carrier card:
  number_of_ports= 30, max_modules= 5
!--- The maximum number of ports will be either 24 or 30. Manufacture Cookie is not programmed.
Modem Module 0 Manufacture Cookie Info: EEPROM Type 0x0101, EEPROM Version 0x01, Board ID 0x06,
Board Hardware Version 1.0, Item Number 73-2522-3, Board Revision A48, Serial Number 08559417,
PLD/ISP Version 255.255, Manufacture Date 21-Oct-1998. !--- Output suppressed.
```

显示调制解调器代码版本

发出**show modem mapping**命令，列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。该命令还允许您确定通过Cisco IOS软件拥有的内部调制解调器。

```
5200#show modem mapping
Slot 1 has Mica Carrier card.
!--- Slot 1 on this router is a MICA modem card. Modem Firmware Firmware Module Numbers Rev
Filename 0 1/0 - 1/5 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin !--- Modems 1/0 through 1/47 have
MICA portware 2.7.3.0 loaded on to them. !--- This firmware is bundled with Cisco IOS Software.
1 1/6 - 1/11 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin 2 1/12 - 1/17 2.7.3.0 flash:mica-modem-
pw.2.7.3.0.bin 3 1/18 - 1/23 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin 4 1/24 - 1/29 2.7.3.0
flash:mica-modem-pw.2.7.3.0.bin 5 1/30 - 1/35 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin 6 1/36 -
1/41 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin 7 1/42 - 1/47 2.7.3.0 flash:mica-modem-
pw.2.7.3.0.bin Firmware-file Version Firmware-Type =====
system:/ucode/mica_board_firmware 2.0.2.0 Mica Boardware system:/ucode/mica_port_firmware
2.7.3.0 Mica Portware system:/ucode/microcom_firmware 5.3.30 Microcom F/W and DSP flash:mica-
modem-pw.2.7.3.0.bin 2.7.3.0 Mica Portware !--- The various modem codes available to the AS5200.
Cisco IOS Software has both MICA and MCOM !--- firmware bundled, even though only MICA hardware
is used. !--- Issue the firmware location command to use a different firmware.
```

[AS5300](#)

要帮助识别您拥有的T1/E1、调制解调器和承载卡，您需要查看AS5300的后面板。

图11 - Cisco AS5300后面板

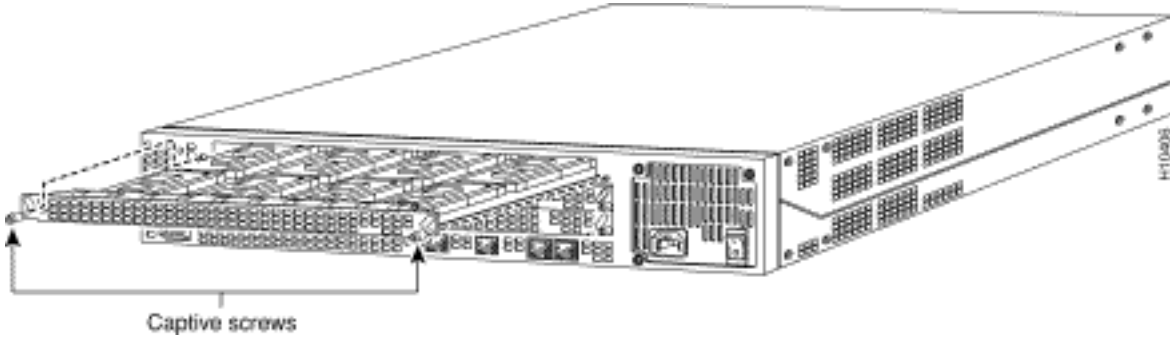
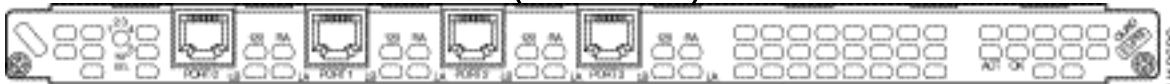


图12 — 不带串行接口的四T1/PRI卡(AS53-4CT1)



不带串行接口的四T1/PRI卡包括四个RJ-45端口（用于T1连接）。

图13 — 不带串行接口的四E1/PRI卡(AS53-4CE1)



不带串行接口的四E1/PRI广域网卡包括四个RJ-45端口，用于端接120欧姆平衡线或75欧姆不平衡线。

图14 — 带串行接口的四T1/PRI或E1/PRI卡(AS53-4CT1+ /AS53-4CE1+)



带串行接口的四T1/PRI卡和四E1/PRI卡。该板提供4个RJ-45 T1或E1 PRI端口和4个串行接口，以支持回传广域网。

注意：这些卡不支持MCOM调制解调器。

图15 — 八口T1/PRI和E1/PRI卡(AS53-8CT1+ /AS53-8CE1+)



八口T1/PRI和E1/PRI卡提供8个RJ-45 T1或E1 PRI端口和4个串行接口，以支持回传WAN。

注意：这些卡不支持MCOM调制解调器。

内部调制解调器

AS5300接入服务器同时支持MICA和MCOM调制解调器。

图16 - MCOM承载卡(AS53-MCC)

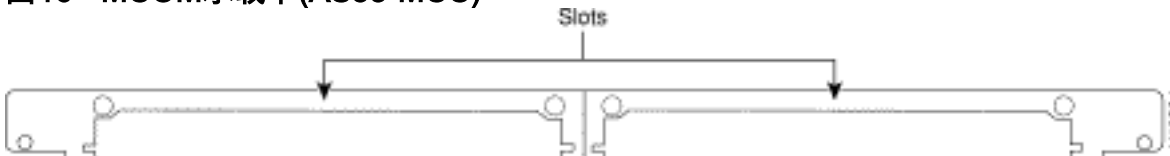


图17 - MCOM V.34 12端口调制解调器模块

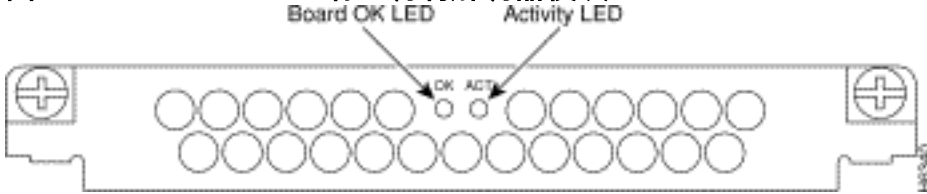
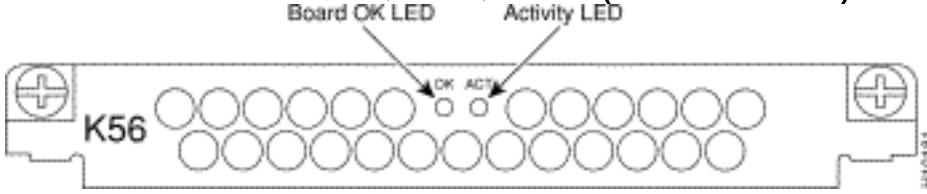


图18 - MCOM 56K 12端口调制解调器模块(AS53-12-M-56K)



12端口模块位于MCOM承载卡中。12端口模块不能用作独立卡，也不能安装在MICA承载卡中。

[确定内部MCOM调制解调器的类型 \(V.90或V.34 \)](#)

发出show modem version命令，列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。您还可以确定调制解调器主板硬件版本命令输出的部分，查看载息，其中包含载波卡的信息。

输出示例：V.34 (V.34 12端口模块)

```
5300#show modem version
Modem module      Firmware      Boot          DSP
Mdm               Number       Rev           Rev           Rev
1/0                0            1.0(23)      1.0(5)
1/1                0            1.0(23)      1.0(5)
1/2                0            1.0(23)      1.0(5)
1/3                0            1.0(23)      1.0(5)
!--- Output suppressed. 2/22 1 1.0(23) 1.0(5) 2/23 1 1.0(23) 1.0(5) Modem board HW version info:
Slot 1: Carrier card: hw version= 8, number_of_ports= 24, max_modules= 2, max_oob_ports= 2 Modem
Module 0: number_of_modems= 12, option_bits= 1, rev_num= 03.00, vendor_model_number= 01,
vendor_banner= Microcom MNP10 V34 Modem
!--- This indicates that the MCOM modems are V.34 capable.
```

输出示例：V.90 (56K 12端口模块)

```
5300#show modem version
Modem module      Firmware      Boot          DSP
Mdm               Number       Rev           Rev           Rev
1/0                0            5.0(40)      3.0(4)      22.0/47.0
1/1                0            5.0(40)      3.0(4)      22.0/47.0
!--- Output suppressed. 1/22 1 5.0(40) 3.0(4) 22.0/47.0 1/23 1 5.0(40) 3.0(4) 22.0/47.0 Modem
board HW version info: Slot 1: Carrier card: hw version= 8, pld= 0, number_of_ports= 24,
max_modules= 2, max_oob_ports= 2 Modem Module 0: number_of_modems= 12, option_bits= 1, rev_num=
03.00, vendor_model_number= 02, vendor_banner= Microcom MNP10 K56 Modem
!--- This indicates that the MCOM modems are V.90 (56K) capable.
```

[显示调制解调器代码版本](#)

发出show modem mapping命令，列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。该命令还允许您确定通过Cisco IOS软件拥有的内部调制解调器。

```
5300#show modem mapping
```

```
Slot 1 has Microcom Carrier card.
```

Module	Firmware	Firmware	
Mdm	Number	Rev	Filename
1/0	0	5.3(30)	IOS-Default

*!--- Modem 1/0 has MCOM portware 5.3(30) loaded on it. 1/1 0 5.3(30) IOS-Default 1/2 0 5.3(30) IOS-Default 1/3 0 5.3(30) IOS-Default !--- Output suppressed. 1/21 1 5.3(30) IOS-Default 1/22 1 5.3(30) IOS-Default 1/23 1 5.3(30) IOS-Default Firmware-file Version Firmware-Type =====
===== system:/ucode/mica_board_firmware 2.0.2.0 Mica Boardware
system:/ucode/mica_port_firmware 2.7.3.0 Mica Portware system:/ucode/microcom_firmware 5.3.30
Microcom F/W and DSP bootflash:mcom-modem-code.5.3.30.bin 5.3.30 Microcom F/W and DSP !--- These
are the various modem codes available to the AS5300. Cisco IOS Software has both MICA and MCOM
!--- firmware bundled, even though only MICA hardware is used. !--- Issue the **firmware location**
command to use a different firmware.*

MICA承载卡

MICA承载卡包括10个插槽，您可以在其中安装6或12端口调制解调器模块。因此，在完全填充的载波卡中，您可以有60个调制解调器（如果使用六端口模块）或120个调制解调器（如果使用12端口模块）。

注：由于有两个承载卡插槽，因此满载的机箱每个机箱可以有120个（如果使用六端口模块）或240个（如果使用12端口模块）调制解调器。

图19 - MICA承载卡(AS53-MCC=)



注意：CC仅支持单密度MICA调制解调器(6DM)。

图20 - MICA承载卡(AS53-CC2-DM=)



注意：CC2支持双密度和单密度调制解调器（12DM和6DM）。

通过Cisco IOS软件识别内部MICA承载卡

发出show modem version命令，列出启动闪存和系统闪存中的所有调制解调器代码文件以及Cisco IOS软件捆绑的调制解调器代码文件。您还可以确定调制解调器主板硬件版本命令输出的部分，查看载息，其中包含载波卡的信息。

CC的show modem version命令输出：

```
5300#show modem version
```


Codes:

d - DSP software download is required for achieving K56flex connections

Mdm	Modem module Number	Firmware Rev	Boot Rev	DSP Rev
1/0	0	2.7.2.1		
1/1	0	2.7.2.1		

!--- Output suppressed. 1/22 3 2.7.2.1 1/23 3 2.7.2.1 Modem board HW version info: Carrier card: number_of_ports= 48, max_modules= 10

Manufacture Cookie Info:

EEPROM Type 0x0001, EEPROM Version 0x01, Board ID 0x47,

!--- Board ID 0x47 indicates the carrier card is CC. !--- This carrier card can accept only !--- Hex Modem Modules (HMMs) (six-port modules). Board Hardware Version 1.0, Item Number 73-2393-3, Board Revision A0, Serial Number 06466432, PLD/ISP Version 5.9, Manufacture Date 3-Nov-1997

CC2的show modem version命令输出：

5300#show modem version

Codes:

d - DSP software download is required for achieving K56flex connections

Mdm	Modem module Number	Firmware Rev	Boot Rev	DSP Rev
1/0	0	2.7.2.1		
1/1	0	2.7.2.1		

!--- Output suppressed. 1/22 3 2.7.2.1 1/23 3 2.7.2.1 Modem board HW version info: Slot 1: Carrier card: number_of_ports= 60, max_modules= 10

Manufacture Cookie Info:

EEPROM Type 0x0001, EEPROM Version 0x01, Board ID 0x4C,

!--- Board ID 0x4C indicates the carrier card is CC2. !--- This carrier card can accept both HMMs and !--- Double-Density Modem Modules (DMMs). Board Hardware Version 1.0, Item Number 800-3680-1, Board Revision A0, Serial Number 20234639, PLD/ISP Version 2.2, Manufacture Date 10-May-2000.

带6一口调制解调器模块(6DM)的MICA承载卡(AS53-MCC=)

图 21

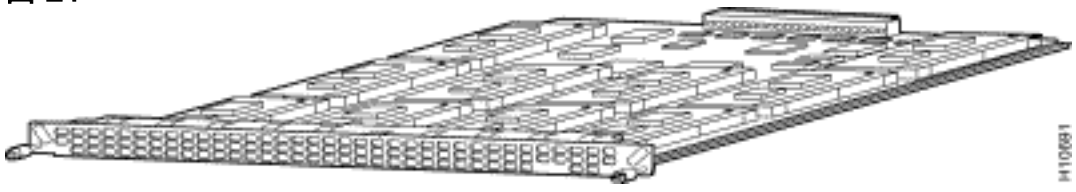
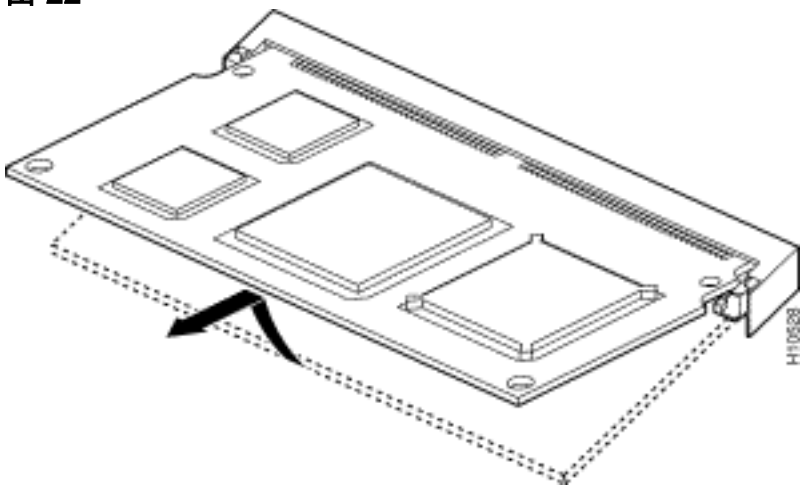


图 22



每个六端口模块包括六个调制解调器。6DM调制解调器也称为HMM。在完全填充的MICA卡中，您最多可以有60个调制解调器。在完全填充的接入服务器机箱中，最多可以有120个调制解调器。其中10个调制解调器模块可配置在每张卡上，每张卡共60个端口或每个机箱共120个端口。

[MICA承载卡\(AS53-CC2-DM=\)，带12端口调制解调器模块\(12DMM\)](#)

图 23

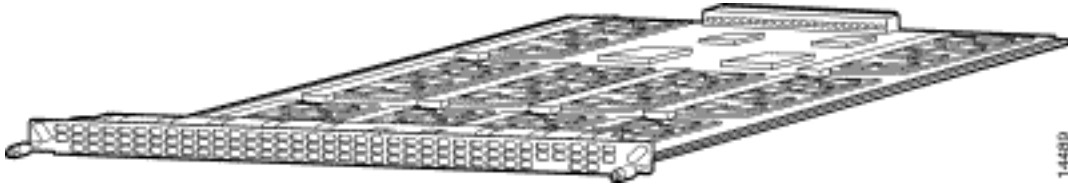
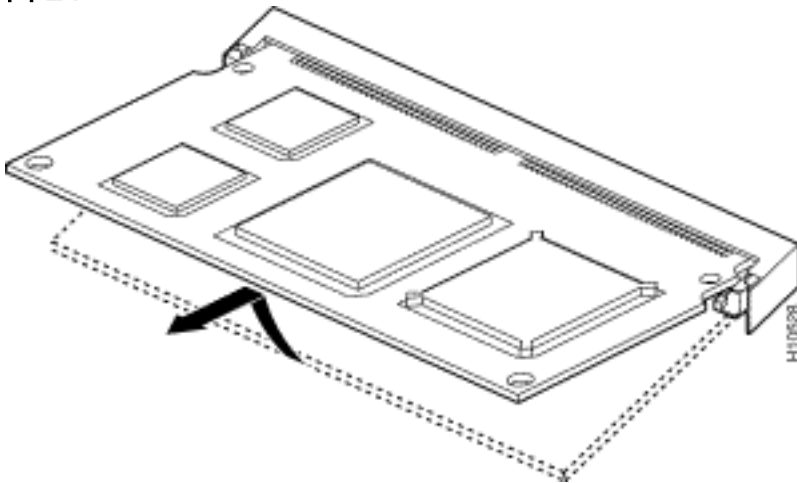


图 24



每个12端口模块包含12个调制解调器。12端口MICA模块也称为DMM。在完全填充的MICA卡中，最多可以有120个端口。在完全填充的接入服务器机箱中，最多可以有240个调制解调器。其中10个调制解调器模块可配置在每张卡上，每张卡共120个端口或每个机箱共240个端口。

[显示调制解调器代码版本](#)

发出show modem mapping命令，列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。该命令还允许您确定通过Cisco IOS软件拥有的内部调制解调器。

```
5300#show modem mapping
```

Slot 1 has Mica Carrier card.

```

Modem      Firmware  Firmware
Module Numbers  Rev      Filename
  0  1/0 - 1/5  2.7.3.0  flash:mica-modem-pw.2.7.3.0.bin
!--- Modems 1/0 through 1/5 have MICA portware 2.7.3.0 loaded on them. 1 1/6 - 1/11 2.7.3.0
flash:mica-modem-pw.2.7.3.0.bin 2 1/12 - 1/17 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin 3 1/18 -
1/23 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin 4 1/24 - 1/29 2.7.3.0 flash:mica-modem-
pw.2.7.3.0.bin 5 1/30 - 1/35 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin 6 1/36 - 1/41 2.7.3.0
flash:mica-modem-pw.2.7.3.0.bin 7 1/42 - 1/47 2.7.3.0 flash:mica-modem-pw.2.7.3.0.bin Firmware-
file Version Firmware-Type =====
2.0.2.0 Mica Boardware system:/ucode/mica_board_firmware
2.7.3.0 Mica Portware system:/ucode/mica_port_firmware
5.3.30 Microcom F/W and DSP flash:mica-modem-pw.2.7.3.0.bin
2.7.3.0 Mica Portware !--- These are the various modem codes available to the AS5300. Cisco IOS
Software has both !--- MICA and MCOM firmware bundled, even though only MICA hardware is used.
```

!--- Issue the **firmware location** command to use a different firmware.

提示：AS5300在Cisco IOS软件版本12.2(10)DA、12.2(9)PI中支持**show diag**命令(Cisco bug ID [CSCdw18728](#) (仅限注册客户) 05、12.2(9)T、12.2(9)S、12.2(9)及更高版本。

AS5350

为帮助识别您拥有的调制解调器和承载卡，您需要查看AS5350的后面板。

图25 - Cisco AS5350机箱后视图

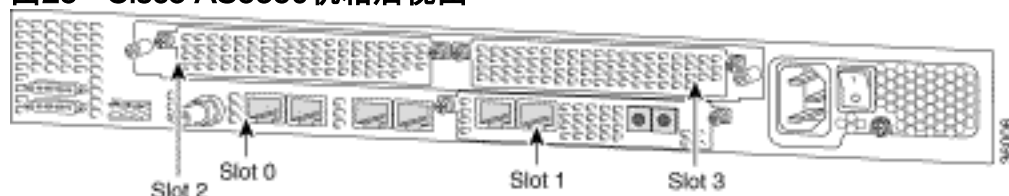


图26 — 带两个八PRI CT1卡(AS535-DFC-CC)的承载卡

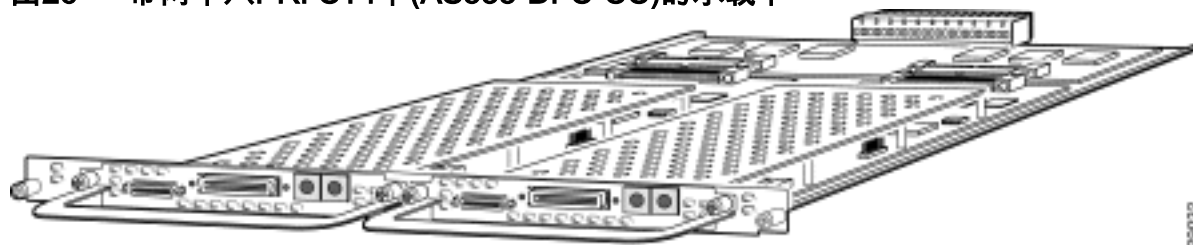


图27 — 双端口T1或E1拨号功能卡(DFC)(AS535-DFC-2CT1 / AS535-DFC-2CE1)

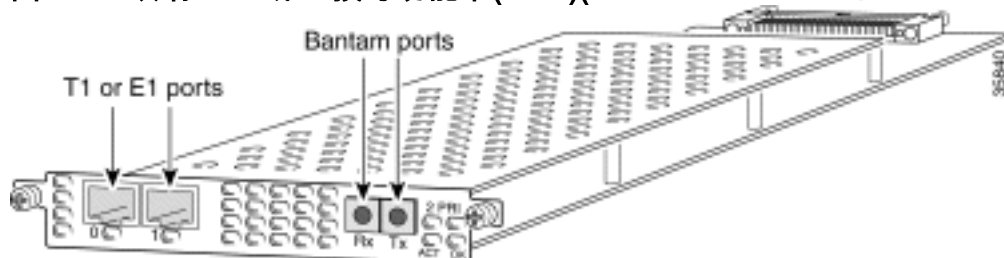


图28 - 4端口T1或E1 DFC(AS535-DFC-4CT1 / AS535-DFC-4CE1)

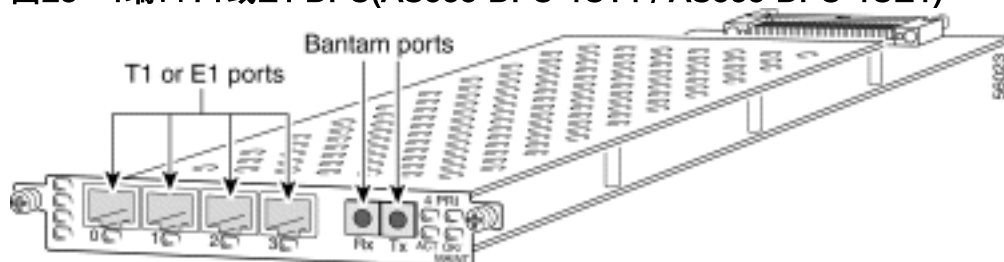
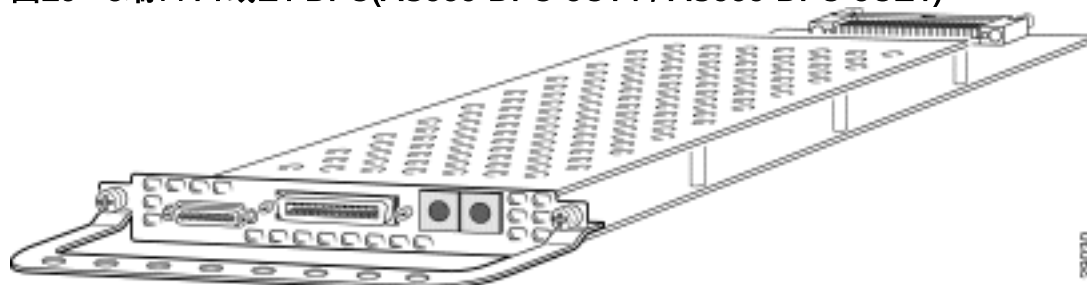
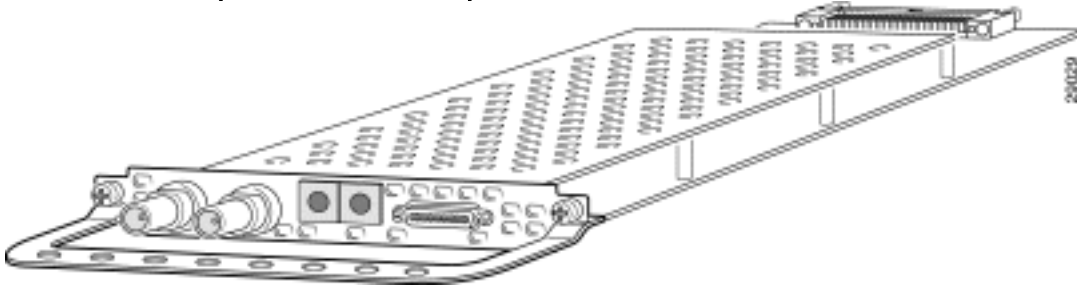


图29 - 8端口T1或E1 DFC(AS535-DFC-8CT1 / AS535-DFC-8CE1)



T1或E1 DFC可用于通用网关机箱的任何DFC插槽。

图30 - T3 DFC(AS535-DFC-CT3)



T3 DFC为信道化T3入口中继线提供物理线路端接。

[确定插槽中安装的DFC类型](#)

要确定插槽中安装的DFC的类型，请在特权EXEC模式下发出**show chassis**命令，如本示例所示：

```
5350#show chassis slot detail

Slot 1:
DFC type is AS5350 NP108 DFC

OIR events:
    Number of insertions = 0, Number of removals = 0
DFC State is DFC_S_OPERATIONAL

Error events (Bus errors, PCI errors):
    Number of errors recovered = 0
!--- Output suppressed. Slot 2:
DFC type is AS5350 Empty DFC
DFC is not powered

OIR events:
    Number of insertions = 0, Number of removals = 0

Error events (Bus errors, PCI errors):
    Number of errors recovered = 0

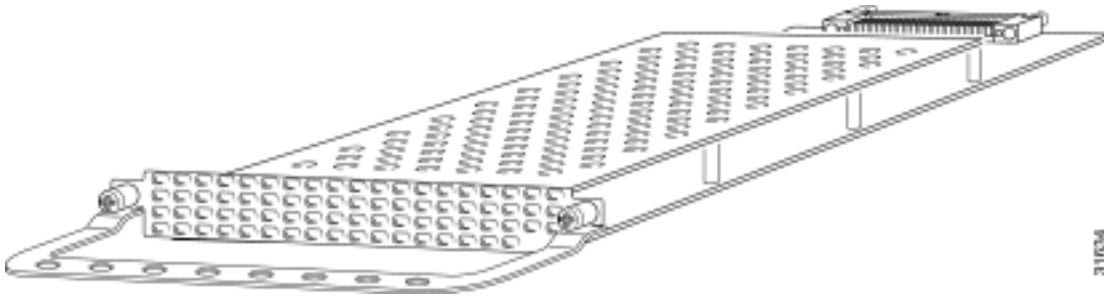
Carrier Card Cookie Info:
Manufacture Cookie Info:
    EEPROM Type 0x0001, EEPROM Version 0x01, Board ID 0x4D,
    Board Hardware Version 3.1, Item Number 73-3997-03,
!--- Output suppressed. Tulum PLD Rev 0x001A Slot 3:
DFC type is AS5350 Empty DFC
DFC is not powered

OIR events:
    Number of insertions = 0, Number of removals = 0

Error events (Bus errors, PCI errors):
    Number of errors recovered = 0

Carrier Card Cookie Info:
Manufacture Cookie Info:
    EEPROM Type 0x0001, EEPROM Version 0x01, Board ID 0x4D,
    Board Hardware Version 3.1, Item Number 73-3997-03,
!--- Output suppressed.
```

图31 — 通用端口DFC(AS535-DFC-108NP / AS535-DFC-60NP)



通用端口DFC提供多个端口会话。会话数取决于卡的端口密度。DFC可安装在通用网关机箱的任何DFC插槽中。

内部调制解调器

AS5350接入服务器仅支持NextPort调制解调器。

显示调制解调器代码版本

发出**show spe version**命令以列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。**show spe version**命令还显示在特定服务处理元素(SPE)上运行的固件版本。

```
5350#show spe version
IOS-Bundled Default Firmware-Filename      Version      Firmware-Type
=====
system:/ucode/np_spe_firmware1             0.6.108.0    SPE firmware
!--- The SPE version bundled with Cisco IOS Software is 6.108. On-Flash Firmware-Filename
Version Firmware-Type =====
bootflash:np.7.15.spe 0.7.15.0 SPE firmware !--- Another SPE file (version 7.15) has been loaded
in bootflash:. SPE-# Type Port-Range Version UPG Firmware-Filename 1/00 CSMV6 0000-0005
0.7.15.0 N/A bootflash:np.7.15.spe
!--- SPE 1/00 uses the SPE code in bootflash (version 7.15). 1/01 CSMV6 0006-0011
0.6.108.0 N/A ios-bundled default
!--- All the other SPEs use the SPE code (version 6.108) bundled with Cisco IOS Software.
1/02 CSMV6 0012-0017 0.6.108.0 N/A ios-bundled default 1/03 CSMV6 0018-0023 0.6.108.0 N/A ios-
bundled default 1/04 CSMV6 0024-0029 0.6.108.0 N/A ios-bundled default !--- Output suppressed.
```

有关详细信息，请参阅[了解NextPort SPE版本](#)和[NextPort SPE和IOS软件版本参考表](#)。

AS5400

为帮助识别您拥有的调制解调器和承载卡，您需要查看AS5400的后面板。

图32 - Cisco AS5400机箱后视图

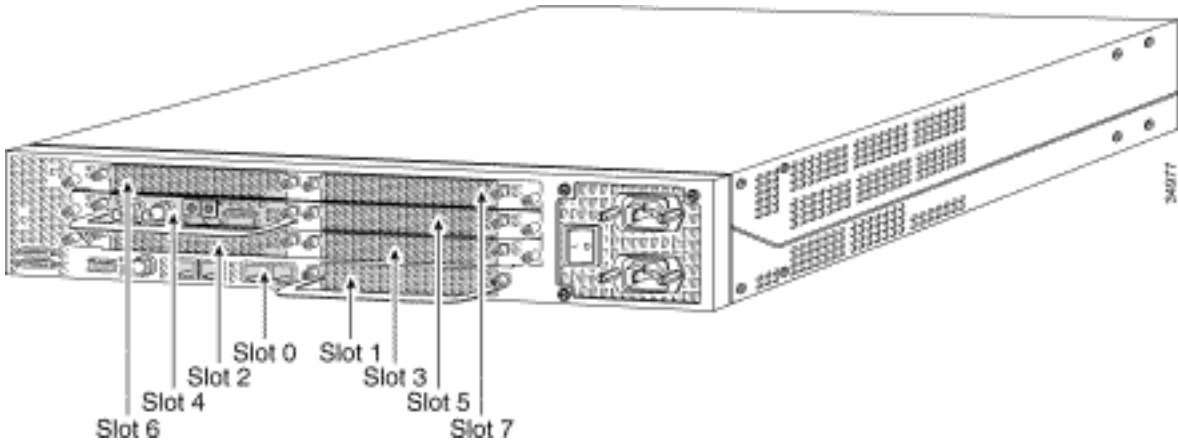


图33 — 带两个八PRI CT1卡(AS54-DFC-CC)的承载卡

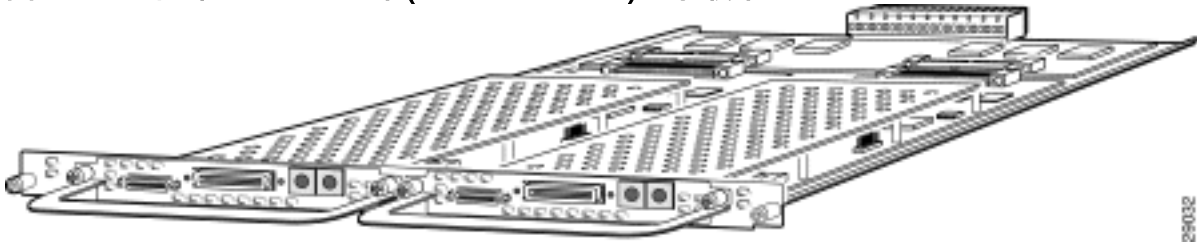


图34 — 双端口T1或E1 DFC(AS535-DFC-2CT1/AS535-DFC-2CE1)

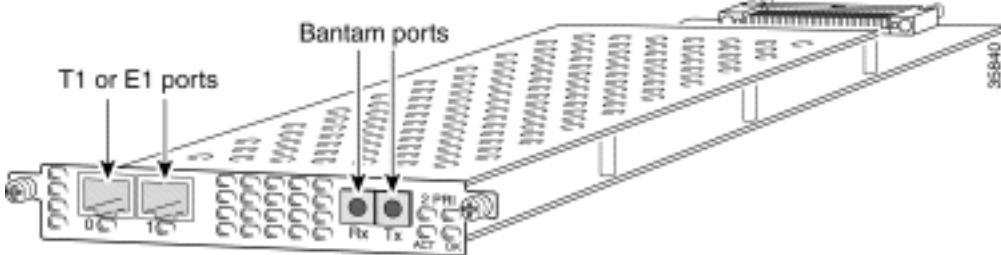


图35 - 4端口T1或E1 DFC(AS535-DFC-4CT1 / AS535-DFC-4CE1)

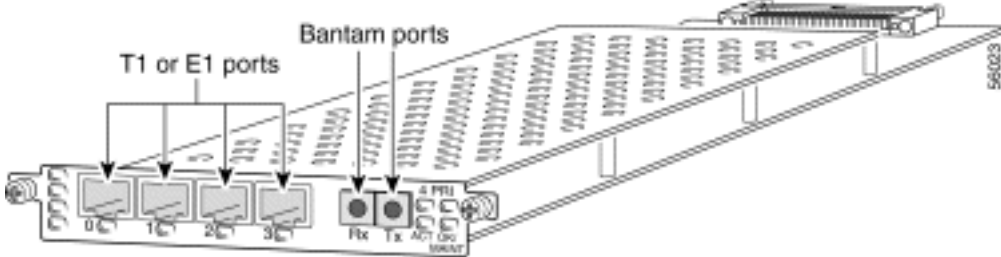
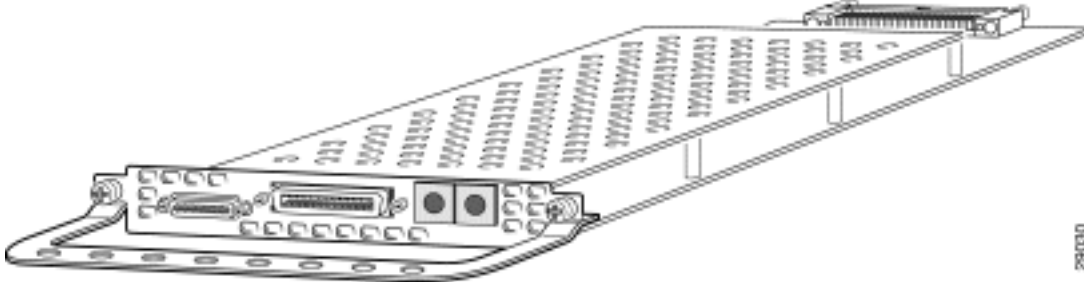


图36 - 8端口T1或E1 DFC(AS54-DFC-8CT1 / AS54-DFC-8CE1)



T1或E1 DFC可用于通用网关机箱的任何DFC插槽。

确定插槽中安装的DFC类型

要确定安装在机箱插槽中的DFC的类型，请在特权EXEC模式下发出show chassis命令，如本例所

示：

注：此示例取自AS5350。但是，AS5400的输出类似。

```
5400#show chassis slot detail
```

```
Slot 1:
```

```
DFC type is AS5350 NP108 DFC
```

```
OIR events:
```

```
Number of insertions = 0, Number of removals = 0
```

```
DFC State is DFC_S_OPERATIONAL
```

```
Error events (Bus errors, PCI errors):
```

```
Number of errors recovered = 0
```

```
!--- Output suppressed. Slot 2: DFC type is AS5350 Empty DFC
```

```
DFC is not powered
```

```
OIR events:
```

```
Number of insertions = 0, Number of removals = 0
```

```
Error events (Bus errors, PCI errors):
```

```
Number of errors recovered = 0
```

```
Carrier Card Cookie Info:
```

```
Manufacture Cookie Info:
```

```
EEPROM Type 0x0001, EEPROM Version 0x01, Board ID 0x4D,
```

```
Board Hardware Version 3.1, Item Number 73-3997-03,
```

```
!--- Output suppressed. Tulum PLD Rev 0x001A Slot 3: DFC type is AS5350 Empty DFC
```

```
DFC is not powered
```

```
OIR events:
```

```
Number of insertions = 0, Number of removals = 0
```

```
Error events (Bus errors, PCI errors):
```

```
Number of errors recovered = 0
```

```
Carrier Card Cookie Info:
```

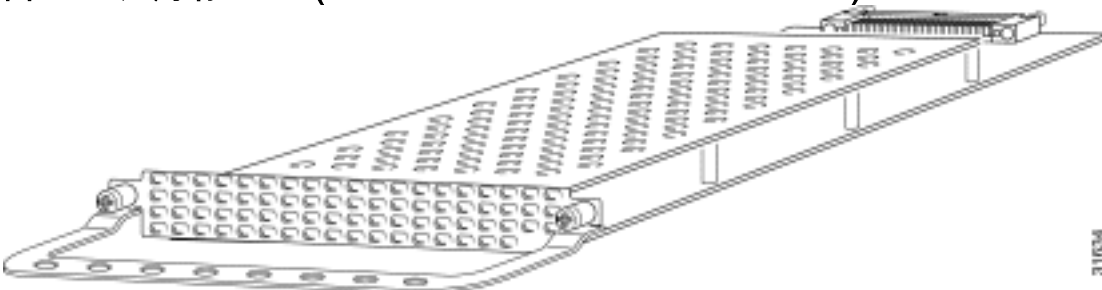
```
Manufacture Cookie Info:
```

```
EEPROM Type 0x0001, EEPROM Version 0x01, Board ID 0x4D,
```

```
Board Hardware Version 3.1, Item Number 73-3997-03,
```

```
!--- Output suppressed.
```

图37 — 通用端口DFC(AS54-DFC-108NP /AS54-DFC-60NP)



通用端口DFC提供多个端口会话。会话数取决于卡的端口密度。DFC可安装在通用网关机箱的任何DFC插槽中。DFC-108NP支持108个调制解调器连接，而DFC-60NP支持60个调制解调器连接。

内部调制解调器

AS5400接入服务器仅支持NextPort调制解调器。

显示调制解调器代码版本

发出**show spe version**命令以列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。**show spe version**命令还显示特定SPE上运行的固件版本。

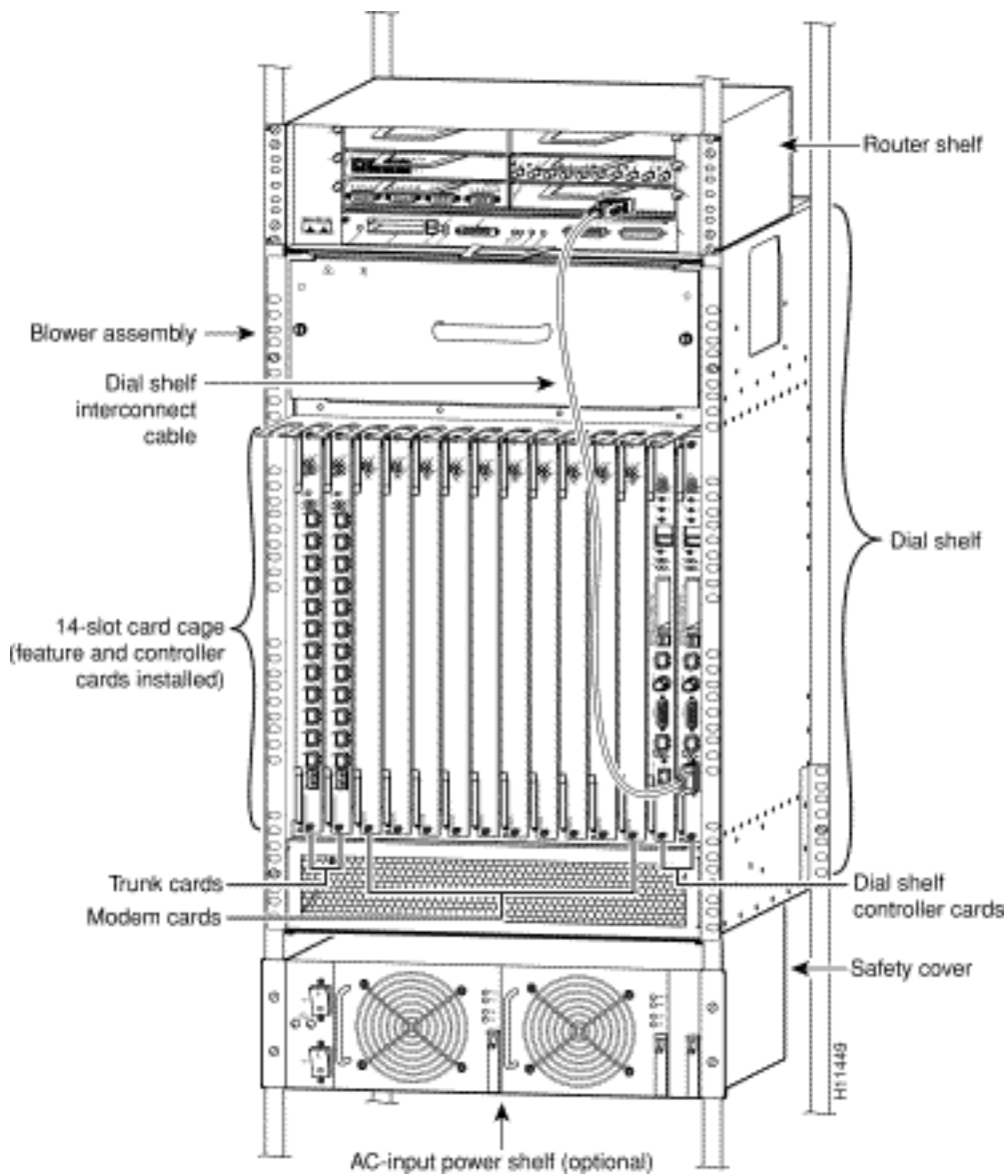
```
5400#show spe version
IOS-Bundled Default Firmware-Filename      Version      Firmware-Type
=====
system:/ucode/np_spe_firmware1            0.6.108.0    SPE firmware
!--- The SPE version bundled with Cisco IOS Software is 6.108. On-Flash Firmware-Filename
Version Firmware-Type =====
bootflash:np.7.15.spe 0.7.15.0 SPE firmware !--- Another SPE file (version 7.15) has been loaded
in bootflash:. SPE-# Type Port-Range Version UPG Firmware-Filename 1/00 CSMV6 0000-0005 0.7.15.0
N/A bootflash:np.7.15.spe !--- SPE 1/00 uses the SPE code in bootflash: (version 7.15). 1/01
CSMV6 0006-0011 0.6.108.0 N/A ios-bundled default !--- All the other SPEs use the SPE code
(6.108) bundled with Cisco IOS Software. 1/02 CSMV6 0012-0017 0.6.108.0 N/A ios-bundled default
1/03 CSMV6 0018-0023 0.6.108.0 N/A ios-bundled default 1/04 CSMV6 0024-0029 0.6.108.0 N/A ios-
bundled default !--- Output suppressed. 6/15 CSMV6 0090-0095 0.6.108.0 N/A ios-bundled default
6/16 CSMV6 0096-0101 0.6.108.0 N/A ios-bundled default 6/17 CSMV6 0102-0107 0.6.108.0 N/A ios-
bundled default
```

有关详细信息，请参阅[了解NextPort SPE版本](#)和[NextPort SPE和IOS软件版本参考表](#)。

AS5800

为帮助识别您拥有的调制解调器和载波卡，您需要查看AS5800的前面板。

图38 — 思科AS5800前视图



接入服务器包括Cisco 5814拨号机架和Cisco 7206路由器机架。

图39 — 思科5814拨号机架

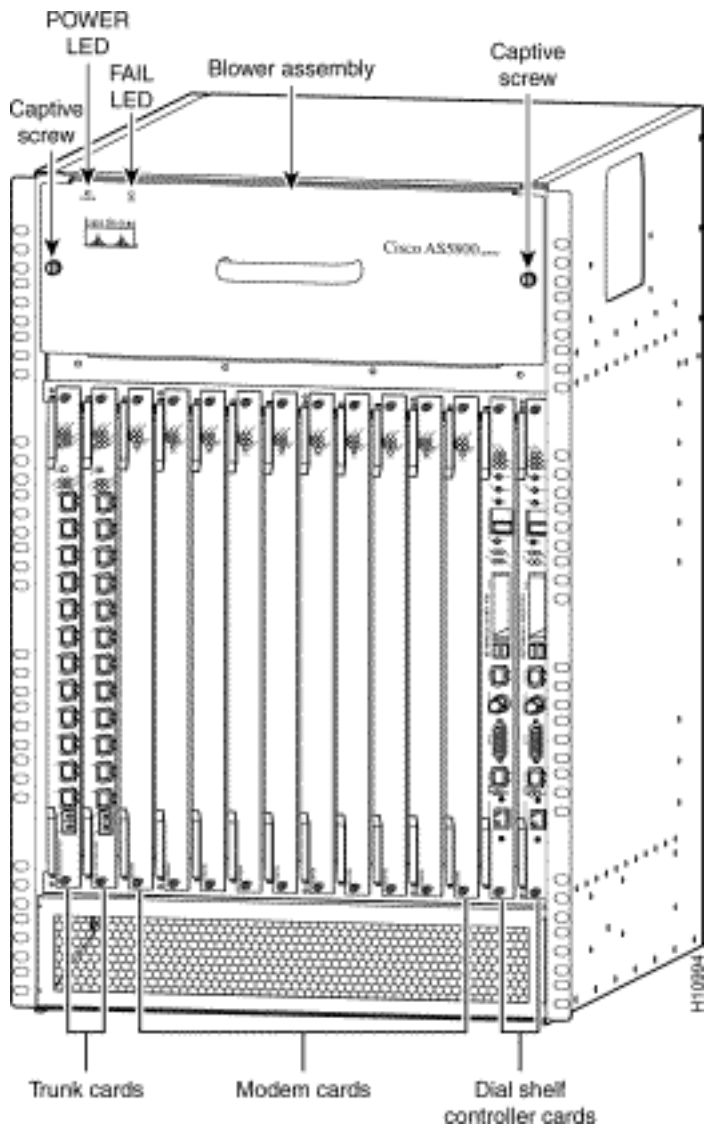


图40 — 拨号机架控制器卡(DS58-DSC)

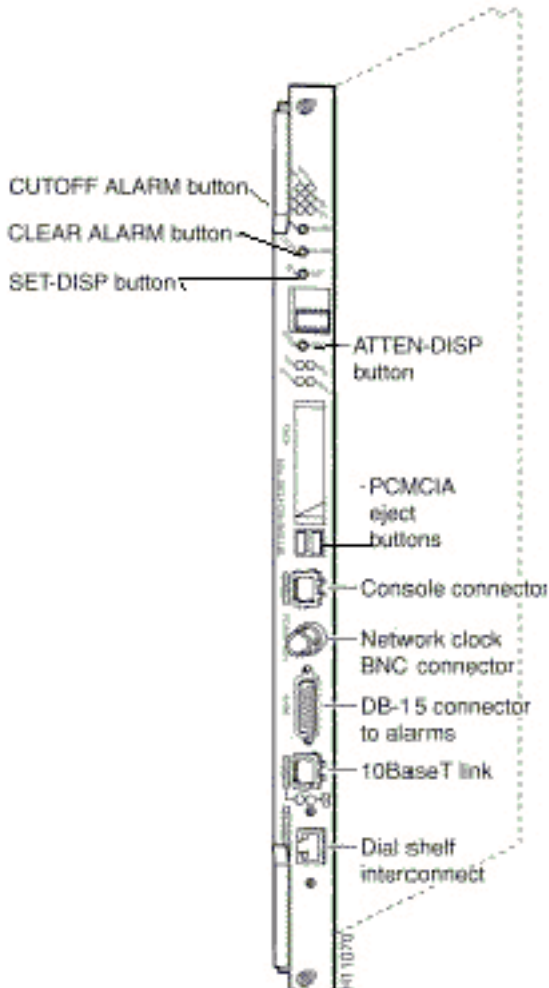


图41 - Cisco 7206路由器机架后视图

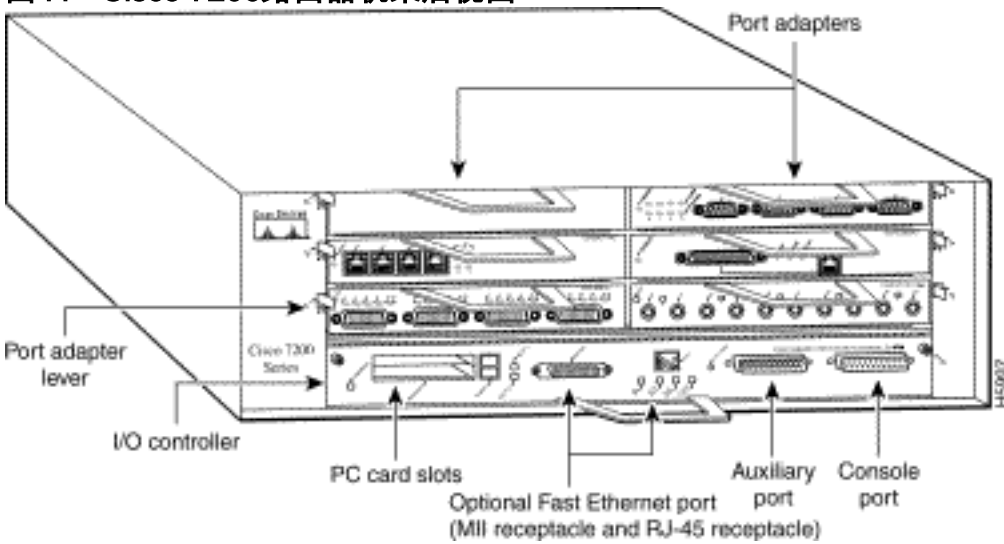
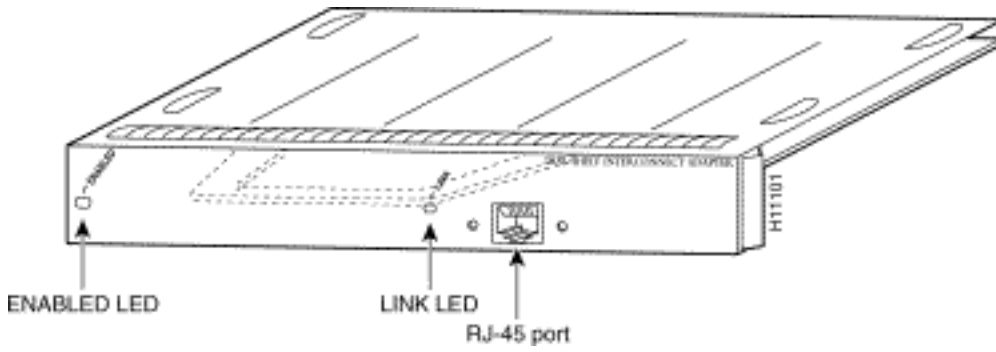
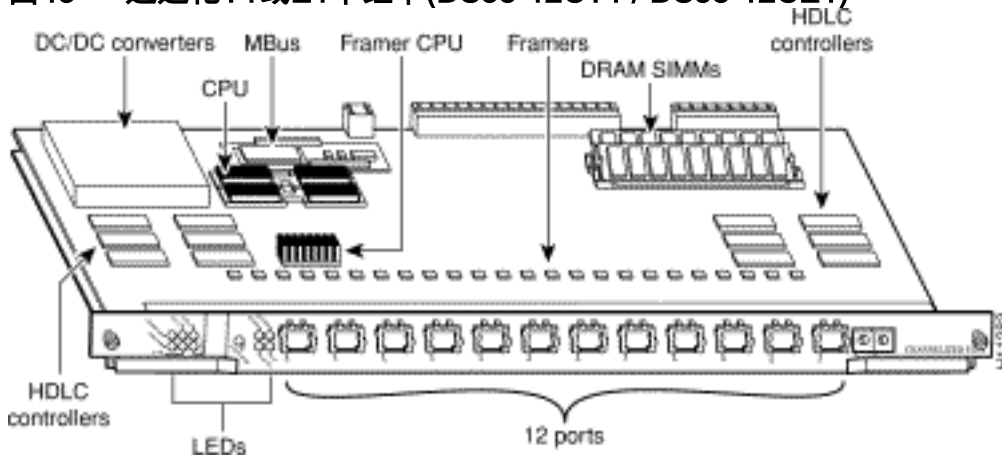


图42 — 拨号机架互连端口适配器



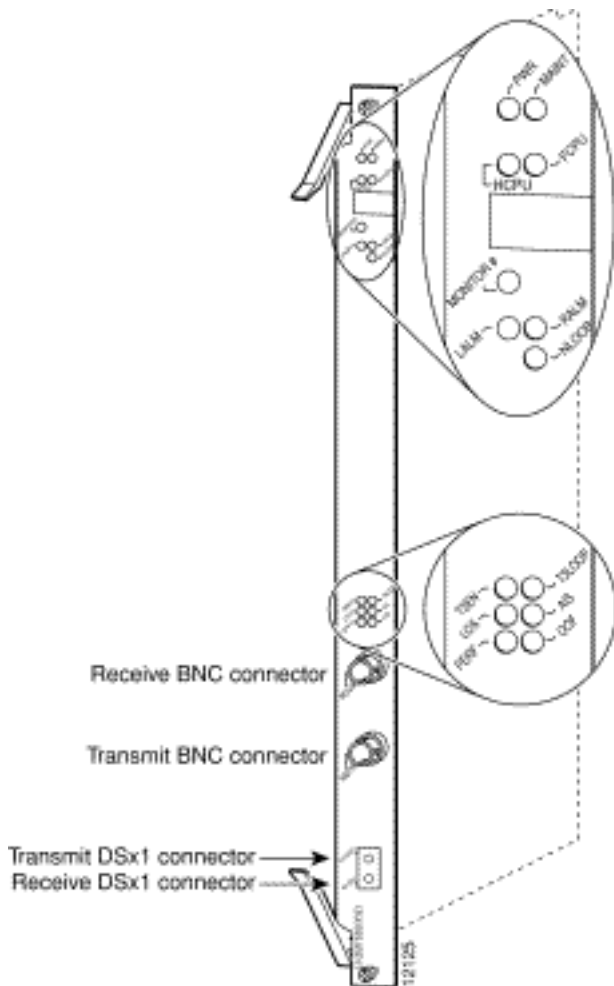
Cisco AS5800具有拨号架互连端口适配器，该适配器将Cisco 5814拨号架连接到Cisco 7206路由器机架。互连端口适配器安装在任何7206路由器机架端口适配器插槽中，并使用单根全双工电缆直接连接到拨号机架上的拨号机架控制器卡。

图43 — 通道化T1或E1中继卡(DS58-12CT1 / DS58-12CE1)



Cisco AS5800通用接入服务器支持信道化T1(CT1)和信道化E1(CE1)接口。CT1和CE1中继卡安装在AS5800的Cisco 5814拨号机架中。

图44 - CT3中继卡(DS58-1CT3)

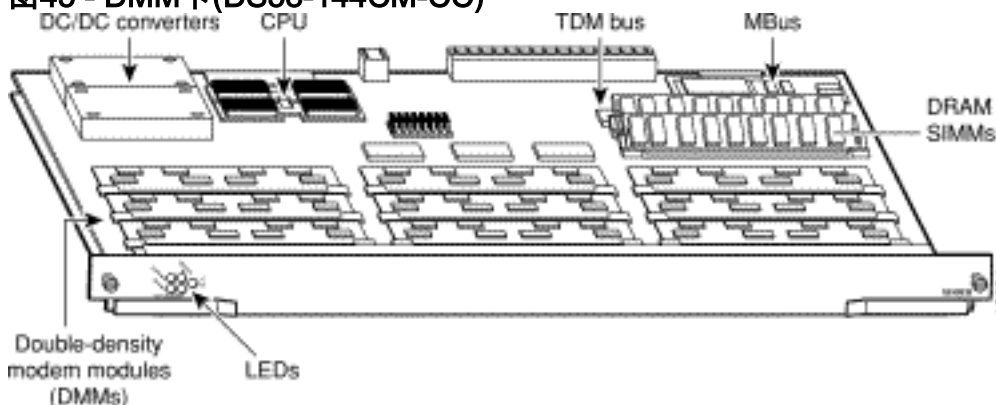


Cisco AS5800通用接入服务器支持信道化T3(CT3)。CT3中继卡安装在插槽0到5中的Cisco 5814拨号机架机箱中。

内部调制解调器

AS5800接入服务器支持以下内部调制解调器：

图45 - DMM卡(DS58-144CM-CC)



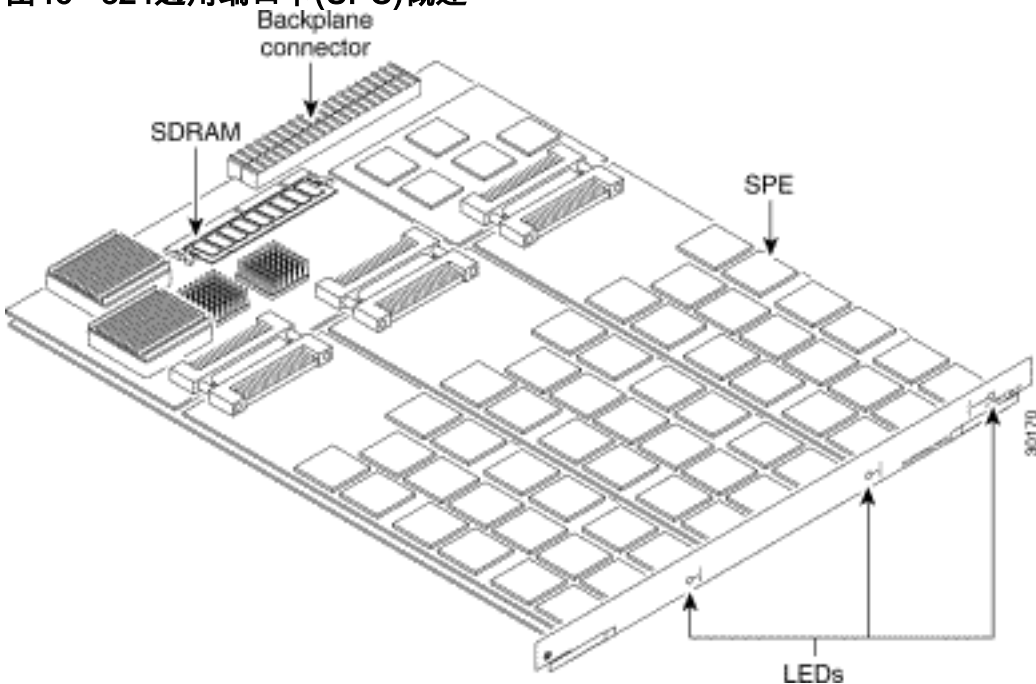
Cisco AS5800最多可容纳10个DMM卡。每个DMM卡包含12 DMM SIMMS。每个DMM SIMM包含12个数字调制解调器。由于每个DMM调制解调器卡上有12个DMM，因此每个卡最多可支持144个调制解调器。DMM卡可在拨号架底板上编号为0到11的插槽中找到。

显示调制解调器代码版本

发出show spe version命令以列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。show spe version命令还显示特定模块上运行的固件版本。

```
5800#show modem version
Modem Range          Module  Firmware Rev
 1/6/00 1/6/05         0      2.7.4.0
!--- MICA modems 1/6/00 through 1/6/05 have MICA portware 2.7.4.0 loaded on them. 1/6/06 1/6/11
1 2.7.4.0 1/6/12 1/6/17 2 2.7.4.0 1/6/18 1/6/23 3 2.7.4.0 1/6/24 1/6/29 4 2.7.4.0 1/6/30 1/6/35
5 2.7.4.0 1/6/36 1/6/41 6 2.7.4.0 1/6/42 1/6/47 7 2.7.4.0 1/6/48 1/6/53 8 2.7.4.0 1/6/54 1/6/59
9 2.7.4.0 1/6/60 1/6/65 10 2.7.4.0 1/6/66 1/6/71 11 2.7.4.0 Modem board HW version info: Modem
Range: 1/6/00 1/6/05 Modem Module: 0 Manufacture Cookie Info: EEPROM Type 0x0101, EEPROM Version
0x01, Board ID 0x06, Board Hardware Version 1.0, Item Number 73-2522-2, Board Revision 051,
Serial Number 06298557, PLD/ISP Version 255.255, Manufacture Date 17-Jul-1997. !--- Output
suppressed. Modem Range: 1/6/66 1/6/71 Modem Module: 11 Manufacture Cookie Info: EEPROM Type
0x0101, EEPROM Version 0x01, Board ID 0x06, Board Hardware Version 1.0, Item Number 73-2522-2,
Board Revision 051, Serial Number 06298008, PLD/ISP Version 255.255, Manufacture Date 17-Jul-
1997.
```

图46 - 324通用端口卡(UPC)概述



324 UPC使用NextPort硬件和固件为Cisco AS5800提供通用端口 (UPC有时称为NextPort模块)。这些端口分组为SPE，每个SPE支持六个通用端口。每个UPC有54个SPE，每个UPC共有324个端口。

显示调制解调器代码版本

发出show spe version命令以列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。show spe version命令还显示特定SPE上运行的固件版本。

```
AS5800#show spe version
IOS-Bundled Default Firmware-Filename          Version  Firmware-Type
=====
system:/ucode/np_spe_firmware1                0.6.6.9  SPE firmware
!--- The SPE version bundled with Cisco IOS Software is 0.6.6.9. On-Flash Firmware-Filename
Version Firmware-Type =====
SPE firmware
!--- Another SPE file (version 0.6.6.5) has been loaded in slot0:. SPE-# SPE-Type SPE-Port-Range
Version UPG Firmware-Filename 1/04/00 CSMV6 0000-0005 0.6.6.9 N/A ios-bundled default !--- SPE
```

1/04/00 uses the SPE code (version 0.6.6.9) that is bundled with Cisco IOS Software. 1/04/01 CSMV6 0006-0011 0.6.6.9 N/A ios-bundled default 1/04/02 CSMV6 0012-0017 0.6.6.9 N/A ios-bundled default 1/04/03 CSMV6 0018-0023 0.6.6.9 N/A ios-bundled default 1/04/04 CSMV6 0024-0029 0.6.6.9 N/A ios-bundled default 1/04/05 CSMV6 0030-0035 0.6.6.9 N/A ios-bundled default 1/04/06 CSMV6 0036-0041 0.6.6.9 N/A ios-bundled default 1/04/07 CSMV6 0042-0047 0.6.6.9 N/A ios-bundled default 1/04/08 CSMV6 0048-0053 0.6.6.9 N/A ios-bundled default !--- Output suppressed. 1/04/50 CSMV6 0300-0305 0.6.6.9 N/A ios-bundled default 1/04/51 CSMV6 0306-0311 0.6.6.9 N/A ios-bundled default 1/04/52 CSMV6 0312-0317 0.6.6.9 N/A ios-bundled default 1/04/53 CSMV6 0318-0323 0.6.6.9 N/A ios-bundled default

有关详细信息，请参阅[了解NextPort SPE版本](#)和[NextPort SPE和IOS软件版本参考表](#)。

AS5850

为帮助识别您拥有的调制解调器和载波卡，您需要查看AS5850的前面板。

图47 — 思科AS5850前视图

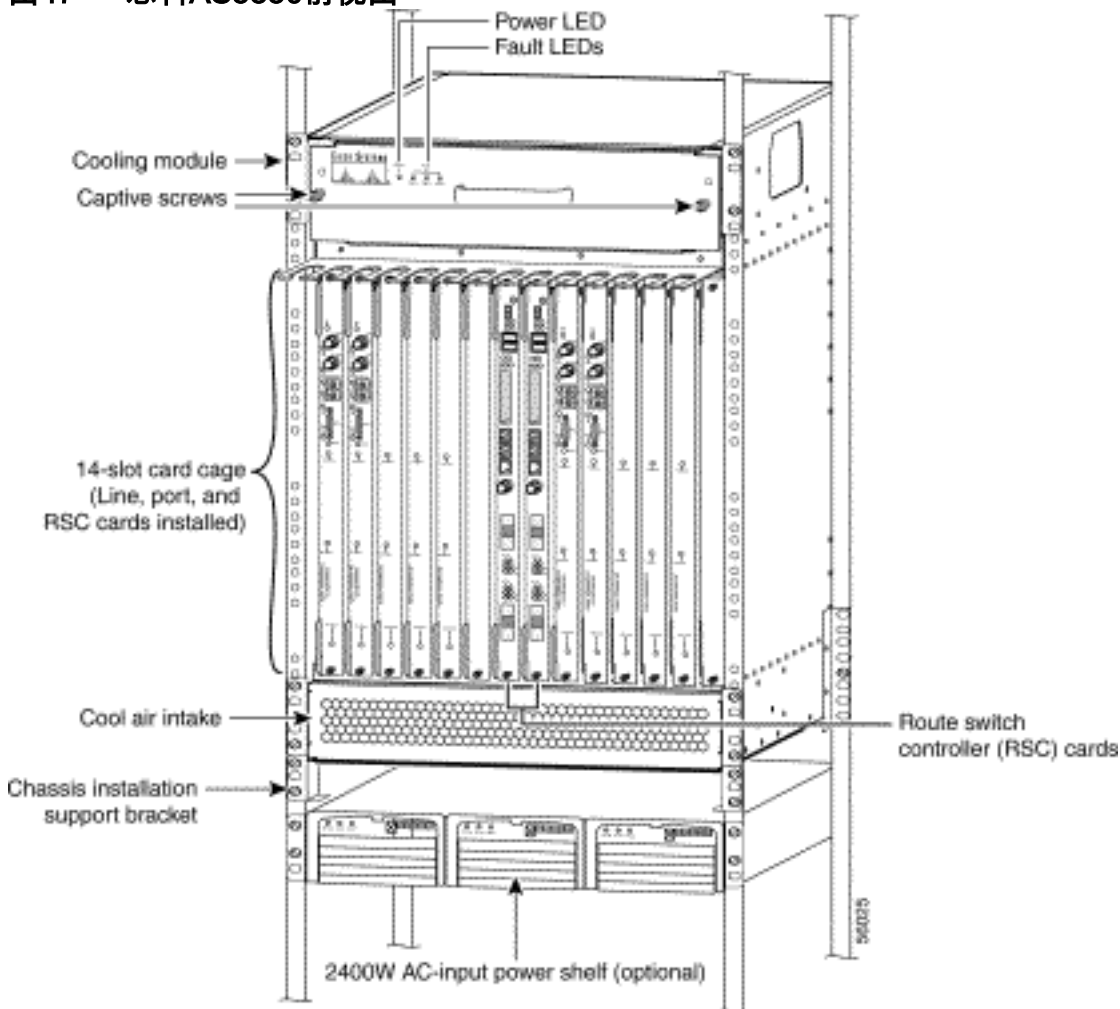
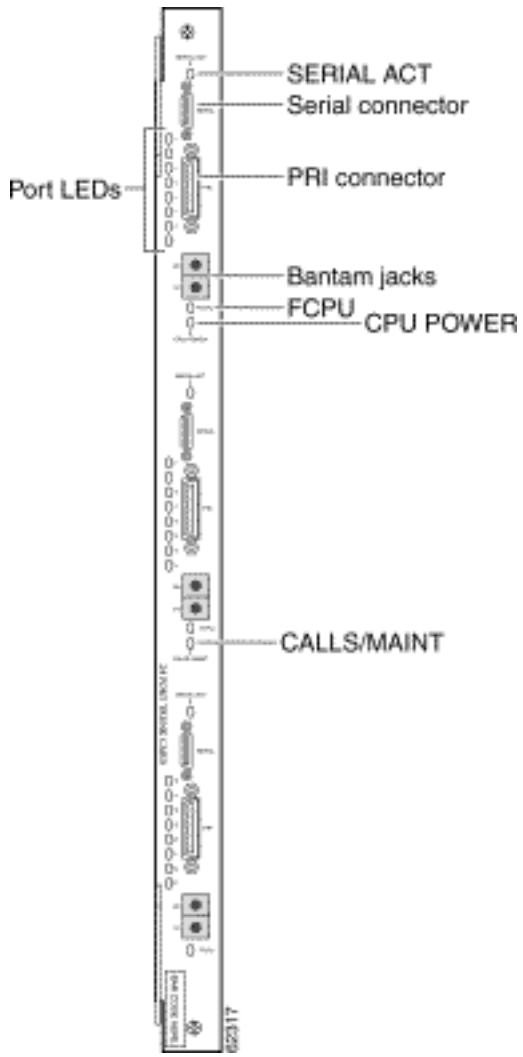
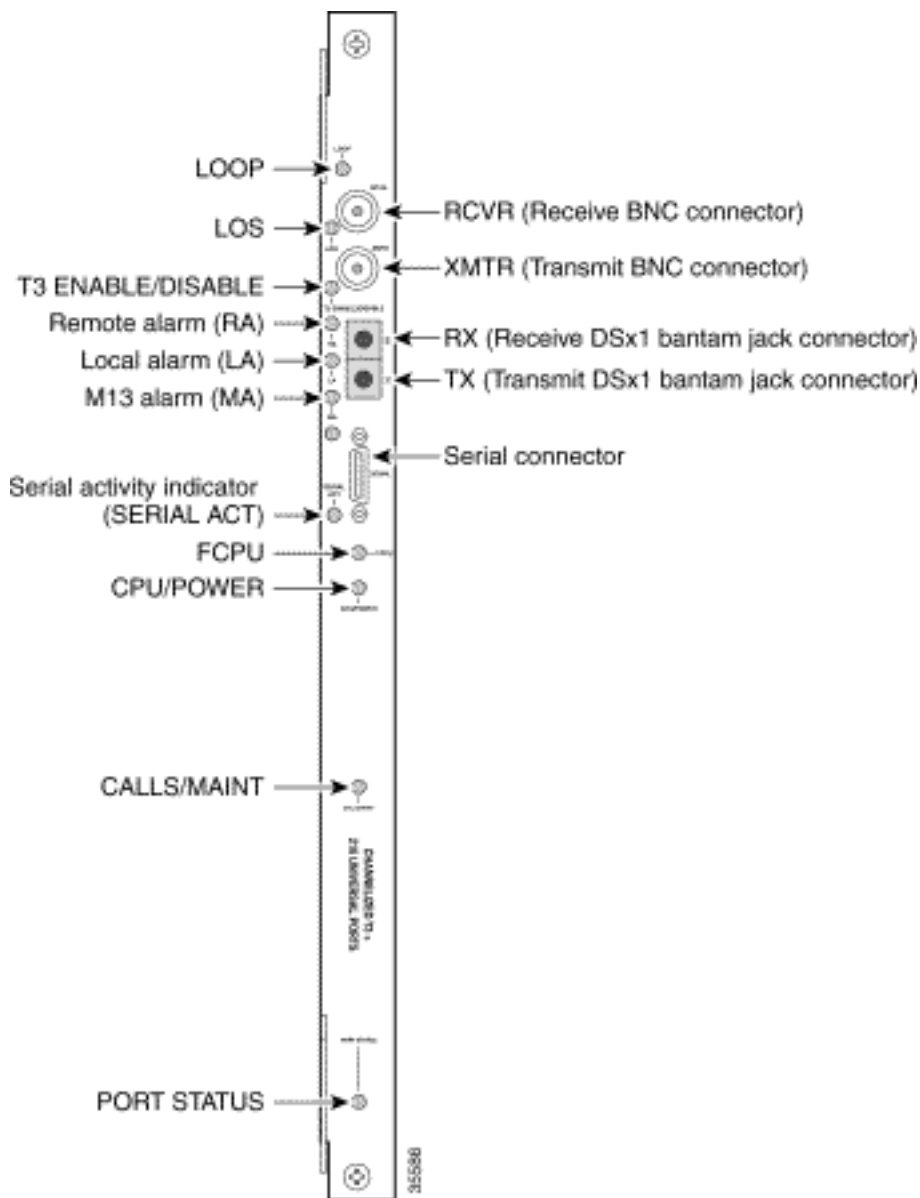


图48 - 24 CT1/CE1中继卡(AS58-24CT1 /AS58-24CE1)



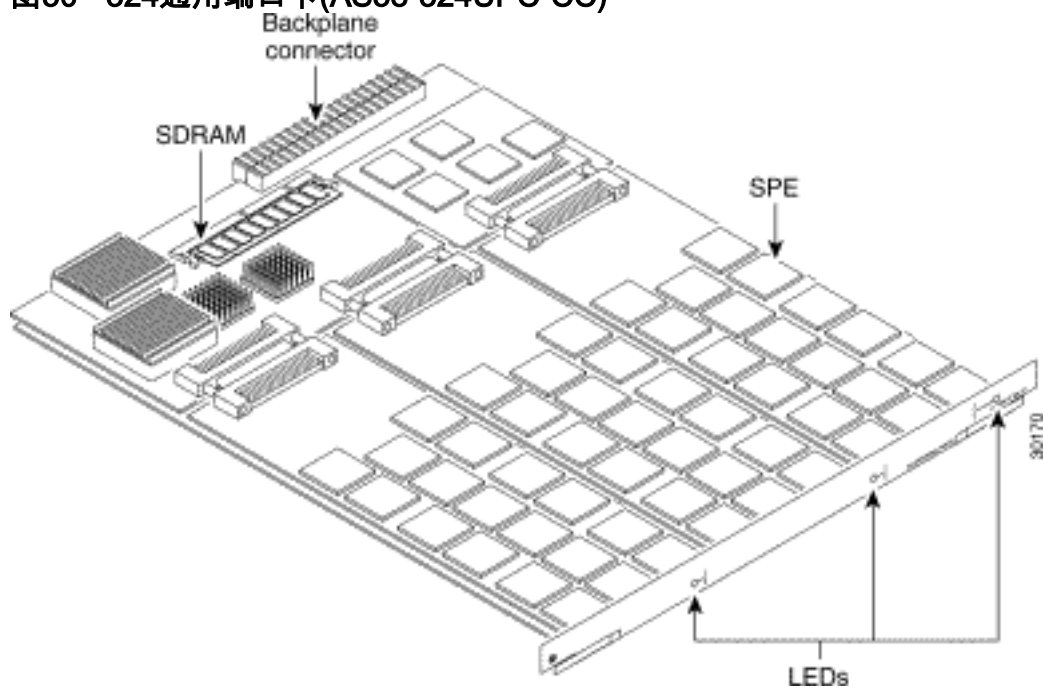
24个CT1/E1中继卡为多达24条T1/E1线路提供物理端接，并连接到外部网络端接(NT1)设备。

图49 — 通道化T3/216通用端口卡(AS58-1CT3/216U)



Cisco AS5850通用网关支持CT3入口接口卡。

图50 - 324通用端口卡(AS58-324UPC-CC)



通用端口可以传输相当于一个DS0的网络流量。核心硬件组件是SPE，每个组件都支持六个通用端口。每个UPC有54个SPE，每个UPC共有324个端口。

[内部调制解调器](#)

AS5850接入服务器仅支持NextPort调制解调器。

[显示调制解调器代码版本](#)

发出**show spe version**命令以列出启动闪存和系统闪存中的所有调制解调器代码文件以及与Cisco IOS软件捆绑的调制解调器代码文件。**show spe version**命令还显示特定SPE上运行的固件版本。

```
AS5850#show spe version
IOS-Bundled Default Firmware-Filename          Version  Firmware-Type
=====
system:/ucode/np_spe_firmware1                0.6.6.9  SPE firmware
!--- The SPE version bundled with Cisco IOS Software is 0.6.6.9. On-Flash Firmware-Filename
Version Firmware-Type =====
SPE firmware !--- Another SPE file (version 0.6.6.5) has been loaded in slot0:. SPE-# SPE-Type
SPE-Port-Range Version UPG Firmware-Filename 1/04/00 CSMV6 0000-0005 0.6.6.9 N/A ios-bundled
default !--- SPE 1/04/00 uses the SPE code (version 0.6.6.9) that is bundled with Cisco IOS
Software. 1/04/01 CSMV6 0006-0011 0.6.6.9 N/A ios-bundled default 1/04/02 CSMV6 0012-0017
0.6.6.9 N/A ios-bundled default 1/04/03 CSMV6 0018-0023 0.6.6.9 N/A ios-bundled default 1/04/04
CSMV6 0024-0029 0.6.6.9 N/A ios-bundled default 1/04/05 CSMV6 0030-0035 0.6.6.9 N/A ios-bundled
default !--- Output suppressed. 1/04/49 CSMV6 0294-0299 0.6.6.9 N/A ios-bundled default 1/04/50
CSMV6 0300-0305 0.6.6.9 N/A ios-bundled default 1/04/51 CSMV6 0306-0311 0.6.6.9 N/A ios-bundled
default 1/04/52 CSMV6 0312-0317 0.6.6.9 N/A ios-bundled default 1/04/53 CSMV6 0318-0323 0.6.6.9
N/A ios-bundled default
```

有关详细信息，请参阅[了解NextPort SPE版本](#)和[NextPort SPE和IOS软件版本参考表](#)。

[相关信息](#)

- [Cisco AS5200硬件/Cisco IOS软件兼容性表](#)
- [Cisco AS5350和Cisco AS5400通用网关卡安装指南](#)
- [接入技术支持页面](#)
- [工具和实用程序 — 思科系统\(仅限注册客户\)](#)
- [技术支持 - Cisco Systems](#)