

识别控制器和调制解调器硬件在As5xxx平台

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[Introduction](#)

本文的目的将为这些接入服务器提供在识别这不同的一个快速参考控制器和内部调制解调器：

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

[Prerequisites](#)

[Requirements](#)

There are no specific requirements for this document.

[Components Used](#)

This document is not restricted to specific software and hardware versions.

Conventions

有关文档规则的详细信息，请参阅 [Cisco 技术提示规则](#)。

AS5200

要帮助识别您有的调制解调器和载波卡，您需要查看AS5200的后面板。

图1 – Cisco AS5200后面板

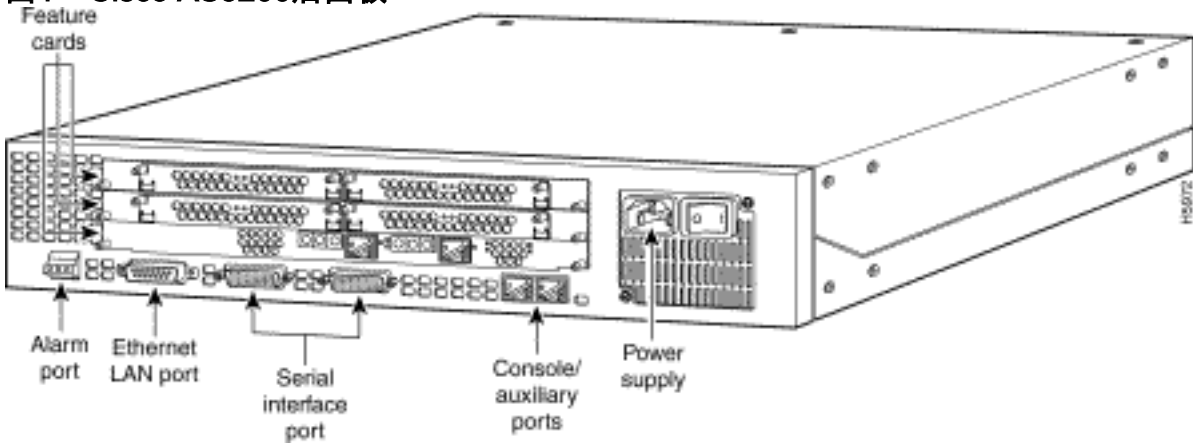


图2 – 双重T1/PRI卡双重CT1/PRI (AS52-2CT1)

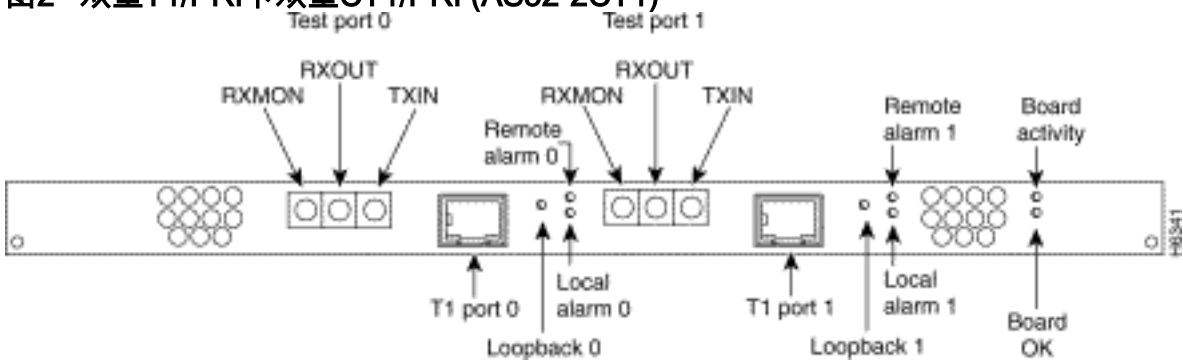


图3 – 双重E1/PRI卡(AS52-2CE1-B)

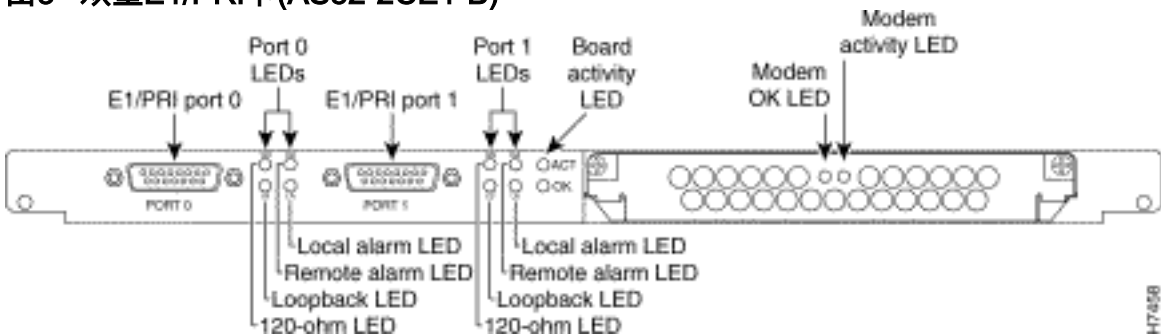
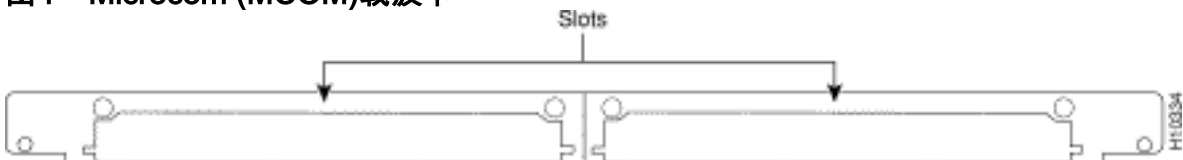


图4 – Microcom (MCOM)载波卡



内部调制解调器

AS5200接入服务器支持这些内部调制解调器模块：

图5 – MCOM V.34 12端口模块(AS52-12-M-V34)

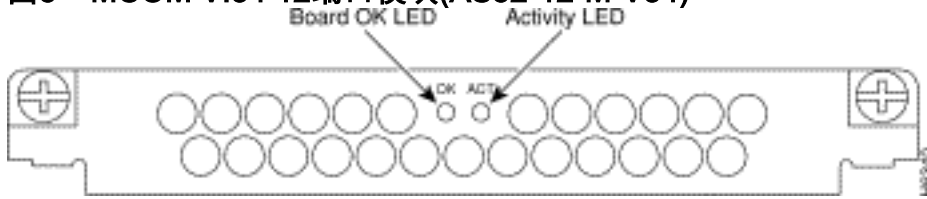


图6 – MCOM 56K 12端口模块(AS52-12-M-56K、AS52-24B-M-56K , AS52-12-M-56K-UPG)

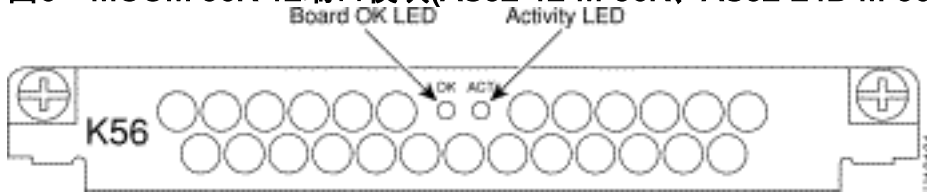
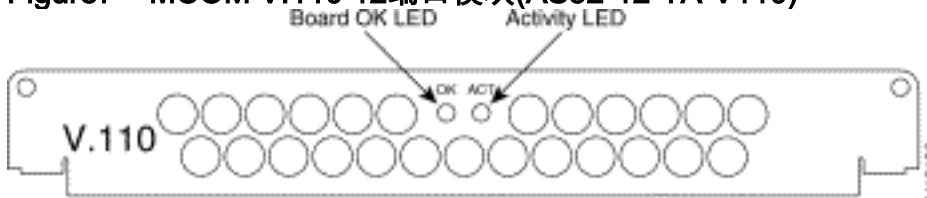


Figure7 – MCOM V.110 12端口模块(AS52-12-TA-V110)



确定内部MCOM调制解调器的种类(V.90或V.34)

发出与Cisco IOS软件捆绑在一起的**show modem version**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。您是否能也确定MCOM调制解调器支持V.90或V.34调制解调器的硬件。在**show modem version**命令输出内，请寻找部分HW。vendor_banner=输出指示MCOM调制解调器是否是V.90或V.34。如果有V.34调制解调器，您的AS5200不支持在33.6kbps (V.34)上的速度。

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

发出与Cisco IOS软件捆绑在一起的**show modem mapping**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及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 – MICA载波卡(AS52-CC-DM)用六端口MICA模块(AS52-6DM)

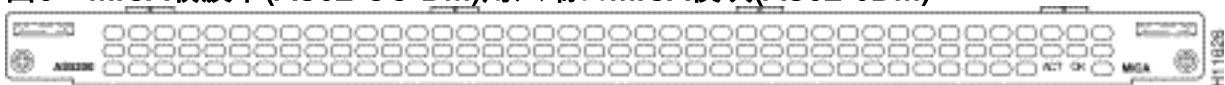
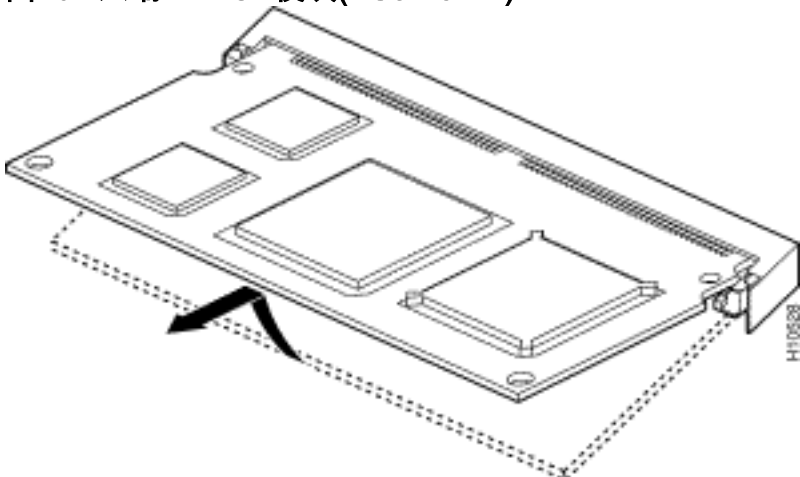


图9 – MICA载波卡(AS52-CC-DM)用六端口MICA模块(AS52-6DM)



图10 – 六端口MICA模块(AS52-6DM)



MICA调制解调器位于载波卡。有每6DM的六调制解调器。

- 与24个端口的MICA载波卡：AS52-24DM-CC=
- 与30个端口的MICA载波卡：AS52-30DM-CC=
- 六端口MICA模块：6DM=

[通过Cisco IOS软件识别内部MICA载波卡](#)

发出与Cisco IOS软件捆绑在一起的**show modem version**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。您能也确定哪个载波卡是存在^{HW}**show modem version**命令输出的部分通过查看，包含关于载波卡的信息。

[MICA调制解调器V.90](#)

发出**show modem version**命令确定载波汽车的容量。不同于在MCOM调制解调器，**show modem version**命令在MICA调制解调器不显示`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      2.7.2.1      2.7.2.1
1/1   0                 2.7.2.1      2.7.2.1      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= 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

发出与Cisco IOS软件捆绑在一起的**show modem mapping**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。命令也允许您确定哪些内部调制解调器您有通过Cisco IOS软件。

```
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T1/E1，您有的调制解调器和载波卡，您需要查看AS5300的后面板。

图11 – Cisco AS5300后面板

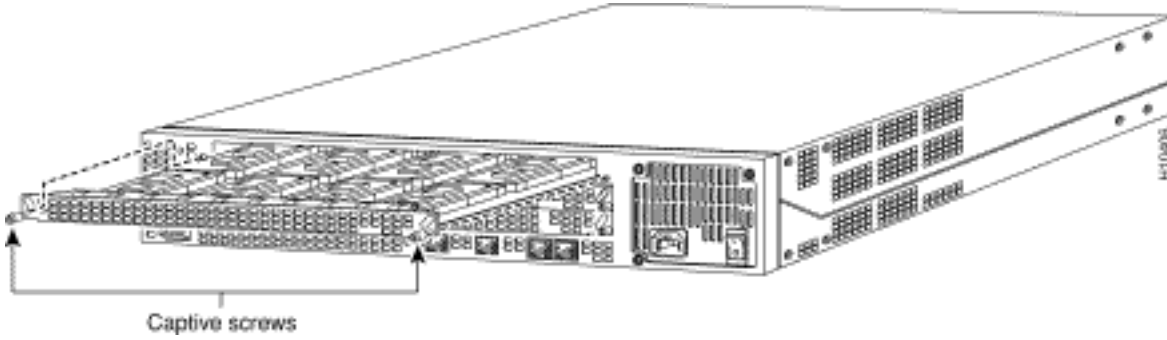
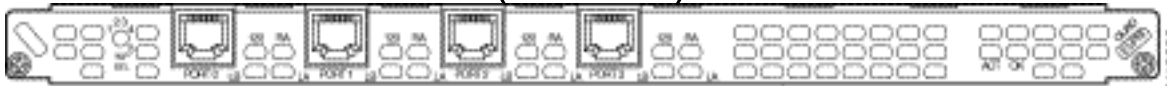


图12 – 四元组没有Serial interfaces (AS53-4CT1)的T1/PRI卡



没有serial interfaces的四元组T1/PRI卡包括四个RJ-45端口(T1连接)。

图13 – 四元组没有Serial interfaces (AS53-4CE1)的E1/PRI卡



没有serial interfaces的四元组E1/PRI广域网卡包括终止的120-ohm平衡线路或75欧姆失去平衡的线路四个RJ-45端口。

图14 – 四元组与Serial interfaces (AS53-4CT1+ /AS53-4CE1+)的T1/PRI或E1/PRI卡



四元组与serial interfaces的T1/PRI和四元组E1/PRI卡。板为回程输广域网支持提供四个RJ-45 T1或E1 PRI端口和四serial interfaces。

Note: 这些卡不支持MCOM调制解调器。

图15 – 八T1/PRI和E1/PRI卡(AS53-8CT1+ /AS53-8CE1+)



八T1/PRI和E1/PRI卡为回程输广域网支持提供八个RJ-45 T1或E1 PRI端口和四serial interfaces。

Note: 这些卡不支持MCOM调制解调器。

内部调制解调器

AS5300接入服务器支持MICA和MCOM调制解调器。

图16 – MCOM载波卡(AS53-MCC)

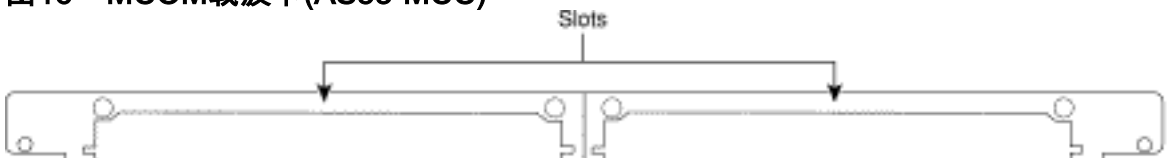


图17 – MCOM V.34 12端口调制解调器模块

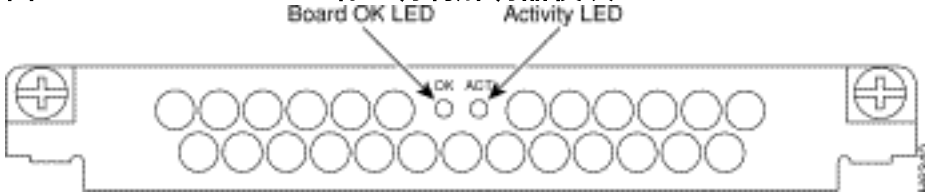
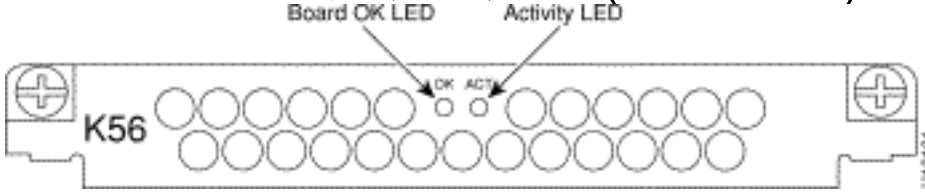


图18 – MCOM 56K 12端口调制解调器模块(AS53-12-M-56K)



12端口模块位于MCOM载波卡。12端口模块，因为独立卡和他们不可能在MICA载波卡上，安装不可能使用。

[确定内部MCOM调制解调器的种类\(V.90或V.34\)](#)

发出与Cisco IOS软件捆绑在一起的**show modem version**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。您能也确定哪个载波卡是存在**show modem version**命令输出的部分通过查看，包含关于载波卡的信息。

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**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及与Cisco IOS Software.The命令捆绑在一起的调制解调器代码文件也允许您确定哪些内部调制解调器您有通过Cisco IOS软件。

```
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载波卡

MICA载波卡包括您能安装六或12端口调制解调器模块的10 slot。所以，在一个充分填充的载波卡您能有60调制解调器(如果使用六端口模块)或120调制解调器(如果使用12端口模块)。

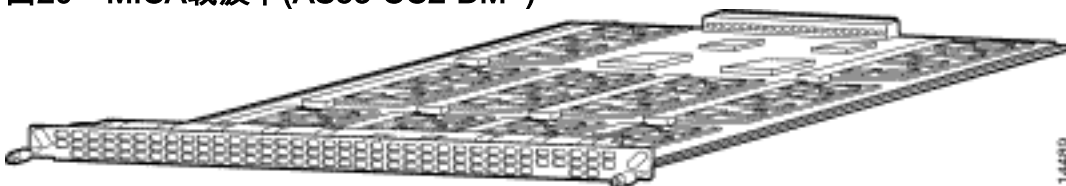
Note: 因为有两载波卡slot，一个充分填充的机箱能有每机箱的120 (如果使用六端口模块)或240 (如果使用12端口模块)调制解调器。

图19 – MICA载波卡(AS53-MCC=)



Note: CC支持仅单密度的MICA调制解调器(6DM)。

图20 – MICA载波卡(AS53-CC2-DM=)



Note: CC2支持双和单一密度调制解调器(12DMs和6DMs)。

通过Cisco IOS软件识别内部MICA载波卡

发出与Cisco IOS软件捆绑在一起的show modem version命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。您能也确定哪个载波卡是存在`show modem version`命令输出的部分通过查看，包含关于载波卡的信息。

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

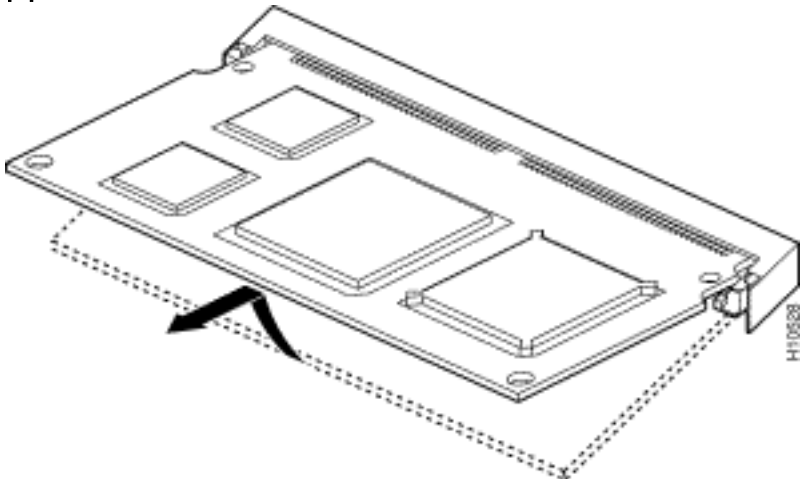
Manufacture Cookie Info:
EEPROM Type 0x0001, EEPROM Version 0x01, Board ID 0x4C,
!--- Board ID 0x4C indicates the carrier card is CC2. !--- This carrier card can accept both HMMs and !--- Double-Density Modem Modules (DMMs). Board Hardware Version 1.0, Item Number 800-3680-1, Board Revision A0, Serial Number 20234639, PLD/ISP Version 2.2, Manufacture Date 10-May-2000.

MICA载波卡(AS53-MCC=)用6端口调制解调器模块(6DM)

图 21



图22



每个六端口模块包括六调制解调器。6DM调制解调器是也知道作为HMMs。在一个充分填充的MICA卡，您能有60调制解调器。在一个充分填充的接入服务器机箱，您能有120调制解调器。十倍

这些调制解调器模块在总共60个端口每个卡或总共120个端口的两个卡中的每一个可以被配置每机箱。

[MICA载波卡\(AS53-CC2-DM=\)用12端口调制解调器模块\(12DMM\)](#)

图23

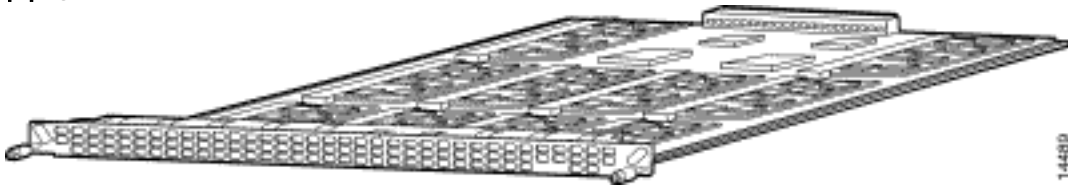
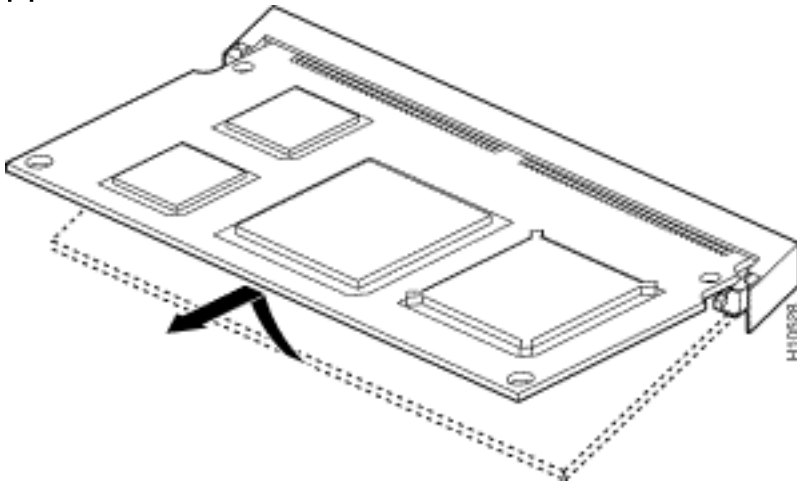


图24



每个12端口模块包括12调制解调器。亦称12端口MICA模块是DMM。在一个充分填充的MICA卡，您能有120个端口。在一个充分填充的接入服务器机箱，您能有240调制解调器。十倍这些调制解调器模块在总共120个端口每个卡或总共240个端口的两个卡中的每一个可以被配置每机箱。

[显示调制解调器代码版本](#)

发出与Cisco IOS软件捆绑在一起的**show modem mapping**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。命令也允许您确定哪些内部调制解调器您有通过Cisco IOS软件。

```
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 =====
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 !--- 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支持show diag命令(Cisco Bug ID [CSCdw18728](#) (仅限注册用户))在Cisco IOS软件版本12.2(10)DA、12.2(9)PI05、12.2(9)T、12.2(9)S、12.2(9)及以后。

AS5350

要帮助识别您有的调制解调器和载波卡，您需要查看AS5350的后面板。

图25 -后视Cisco AS5350的机箱

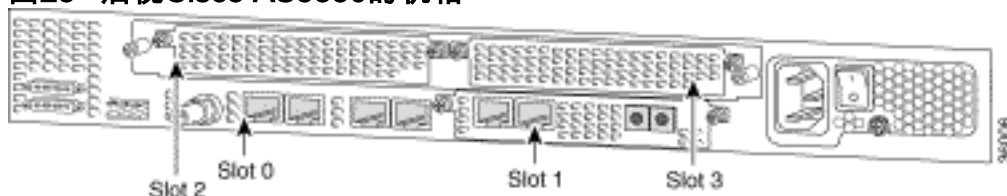


图26 -与两个八个PRI CT1卡(AS535-DFC-CC)的载波卡

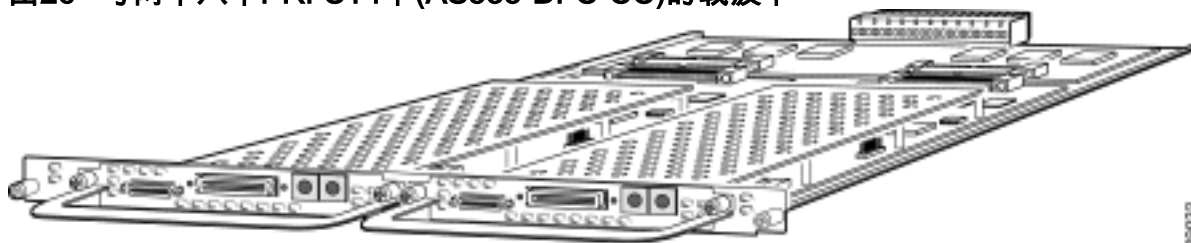


图27 -两端口的T1或E1拨号功能卡(DFC) (AS535-DFC-2CT1/AS535-DFC-2CE1)

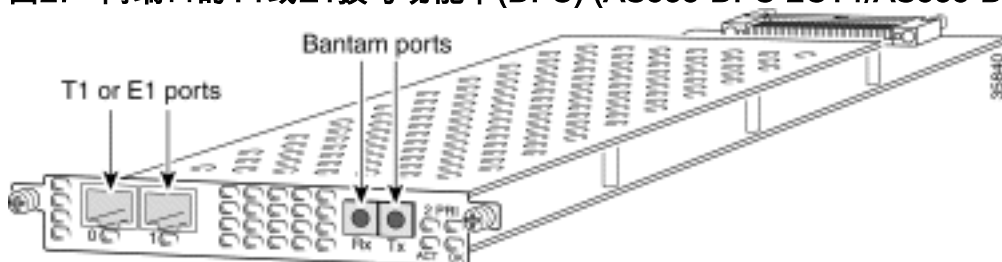


图28 -四端口T1或E1 DFCs (AS535-DFC-4CT1/AS535-DFC-4CE1)

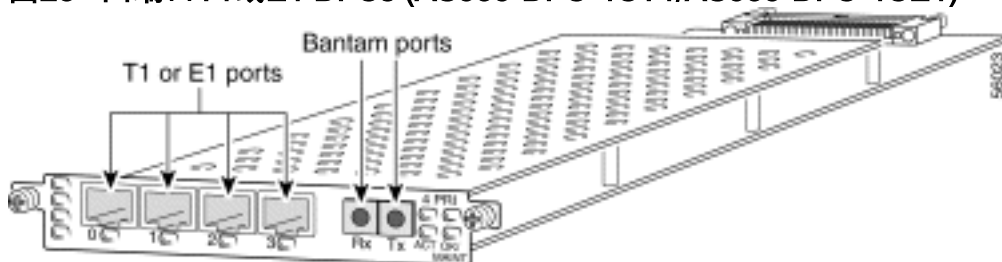
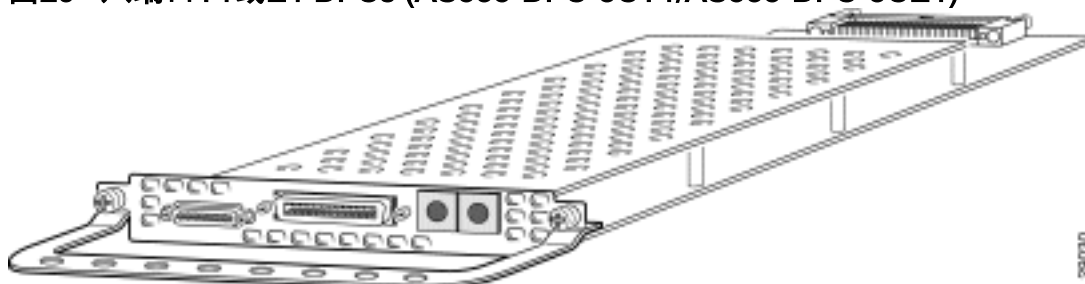
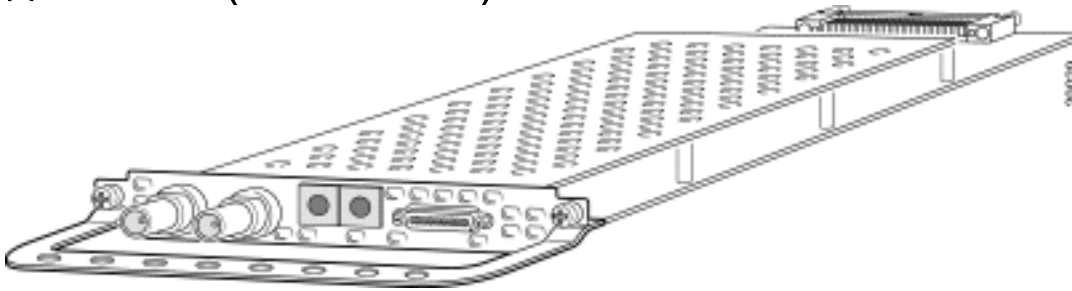


图29 -八端口T1或E1 DFCs (AS535-DFC-8CT1/AS535-DFC-8CE1)



T1或E1 DFCs可以用于任何通用网关机箱的DFC slot。

图30 – T3 DFC (AS535-DFC-CT3)



一条信道化的T3入口中继线的T3 DFC提供物理线路终止。

确定在Slot上安装的DFC的种类

如此示例所显示，要确定在slot上安装的DFC的种类，请发出**show chassis**命令在privileged EXEC模式下，：

```
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:
```

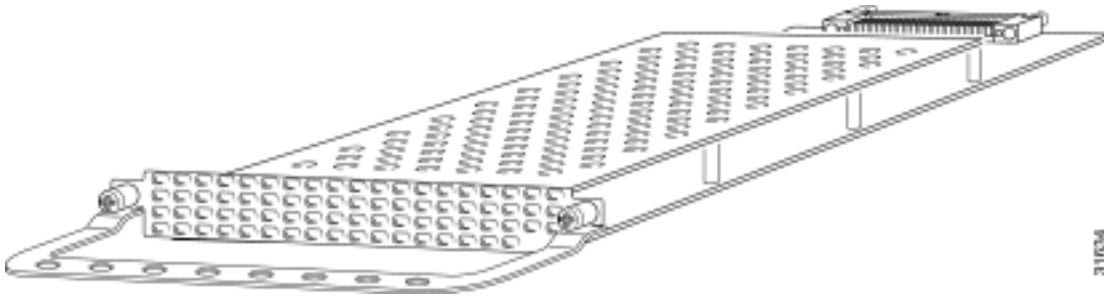
```
Manufacture Cookie Info:
```

```
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。会话的数量取决于卡的端口密度。DFC可以在通用网关机箱的所有DFC slot上安装。

内部调制解调器

仅AS5350接入服务器支持NextPort调制解调器。

显示调制解调器代码版本

发出与Cisco IOS软件捆绑在一起的**show spe version**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。**show spe version**命令也显示运行在一个特定的业务处理元素(SPE)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.
```

欲知更多信息，请参见[了解NextPort SPE版本](#)和[NextPort SPE和IOS软件版本参考表](#)。

AS5400

要帮助识别您有的调制解调器和载波卡，您需要查看AS5400的后面板。

图32 – Cisco AS5400机箱后视图

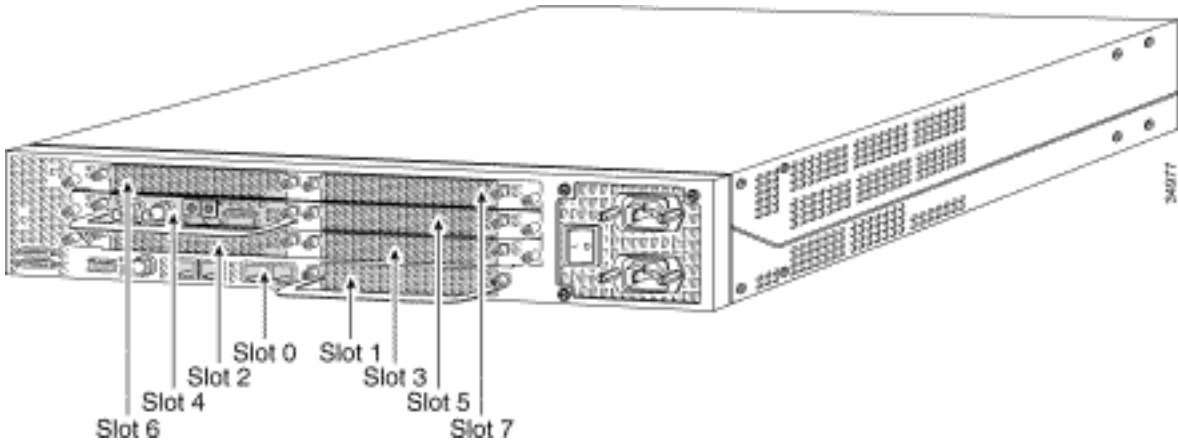


图33 -与两个八个PRI CT1卡(AS54-DFC-CC)的载波卡

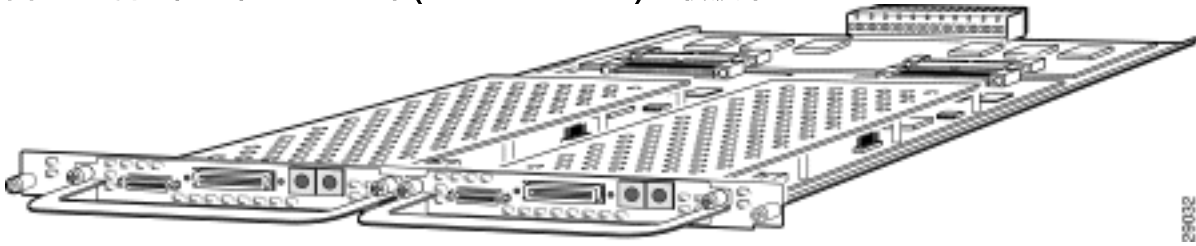


图34 -两端口的T1或E1 DFCs (AS535-DFC-2CT1/AS535-DFC-2CE1)

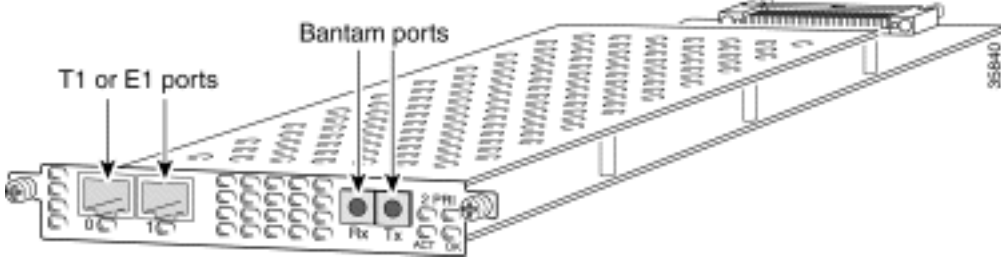


图35 -四端口T1或E1 DFCs (AS535-DFC-4CT1/AS535-DFC-4CE1)

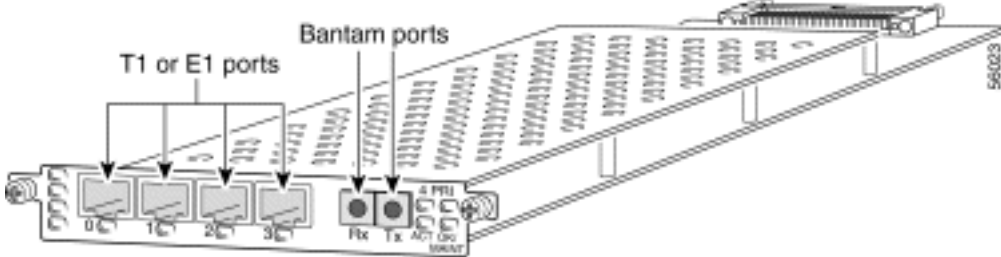
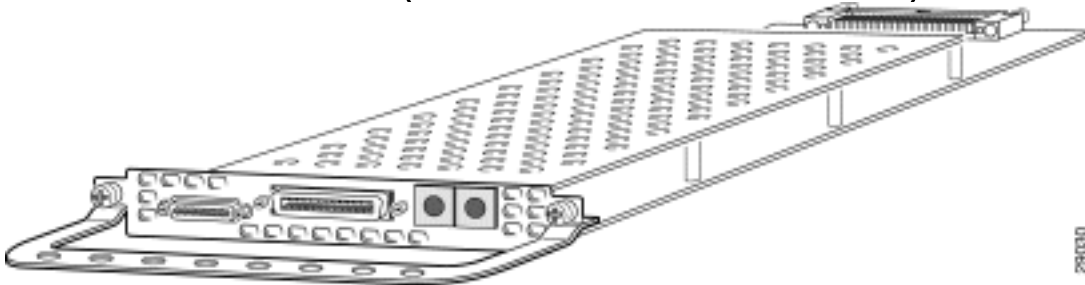


图36 -八端口T1或E1 DFCs (AS54-DFC-8CT1/AS54-DFC-8CE1)



T1或E1 DFCs可以用于任何通用网关机箱的DFC slot。

[确定在Slot上安装的DFC的种类](#)

要确定在slot上安装的DFC的种类在机箱上，请发出show chassis命令在privileged EXEC模式下

, 在本例中显示的：

Note: 此示例从AS5350采取。然而，AS5400的输出是类似的。

```
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:
```

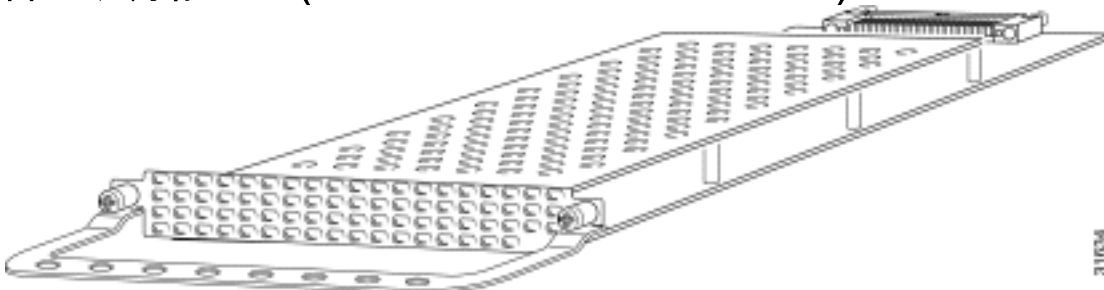
```
Manufacture Cookie Info:
```

```
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。会话的数量取决于卡的端口密度。DFC可以在通用网关机箱的所有DFC slot上安装。而DFC-60NP支持60个调制解调器连接，DFC-108NP支持108个调制解调器连接。

[内部调制解调器](#)

仅AS5400接入服务器支持NextPort调制解调器。

显示调制解调器代码版本

发出与Cisco IOS软件捆绑在一起的**show spe version**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。**show spe version**命令也显示运行在特定SPE的固件版本。

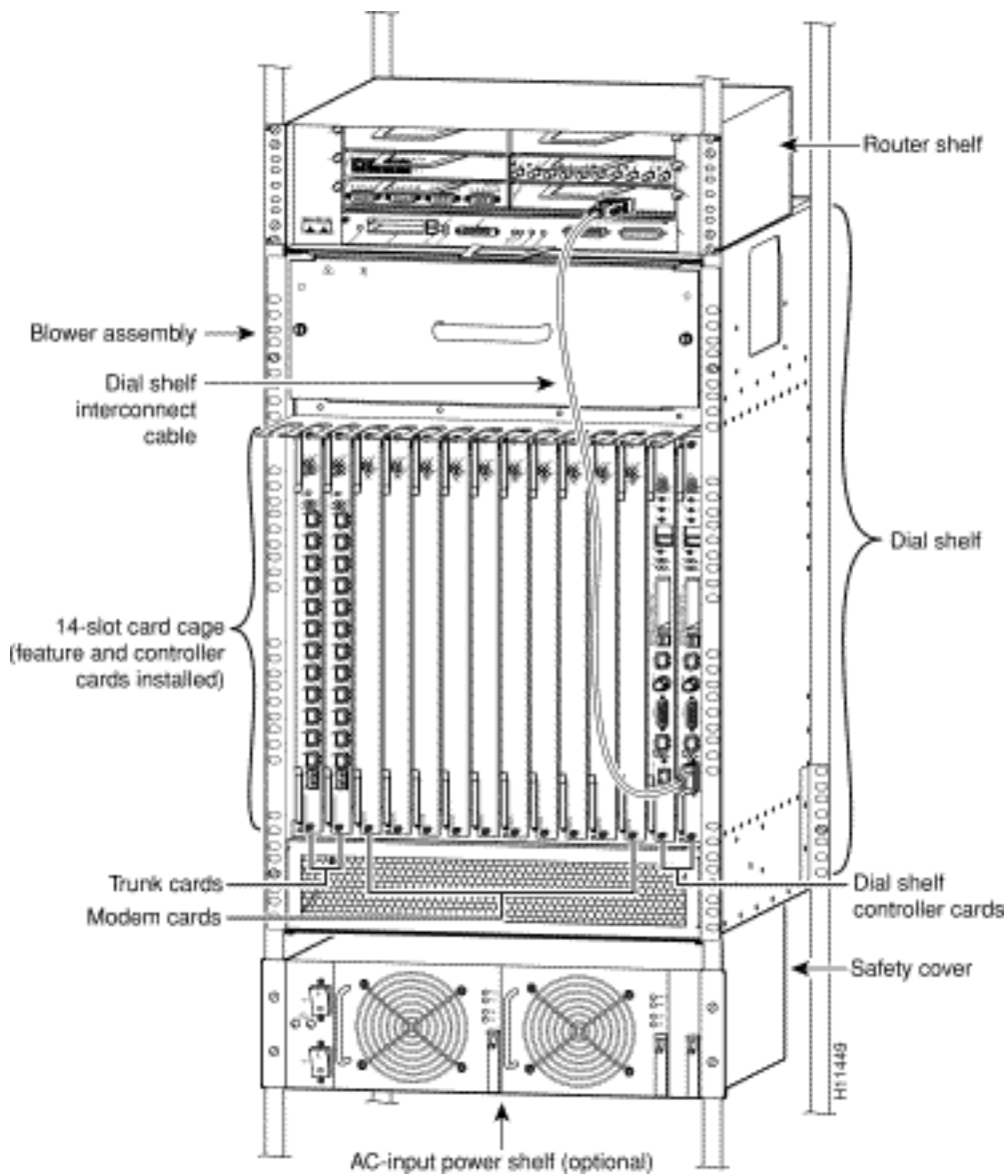
```
5400#show spe version
IOS-Bundled Default Firmware-Filename      Version      Firmware-Type
=====
system:/ucode/np_spe_firmware1            0.6.108.0    SPE firmware
!--- The SPE version bundled with Cisco IOS Software is 6.108. On-Flash Firmware-Filename
Version Firmware-Type =====
bootflash:np.7.15.spe 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
```

欲知更多信息，请参见[了解NextPort SPE版本](#)和[NextPort SPE和IOS软件版本参考表](#)。

AS5800

要帮助识别您有的调制解调器和载波卡，您需要查看AS5800的前面板。

图38 – Cisco AS5800-Front视图



接入服务器包括Cisco 5814拨号架和一个思科7206路由器架子。

图39 – Cisco 5814拨号架

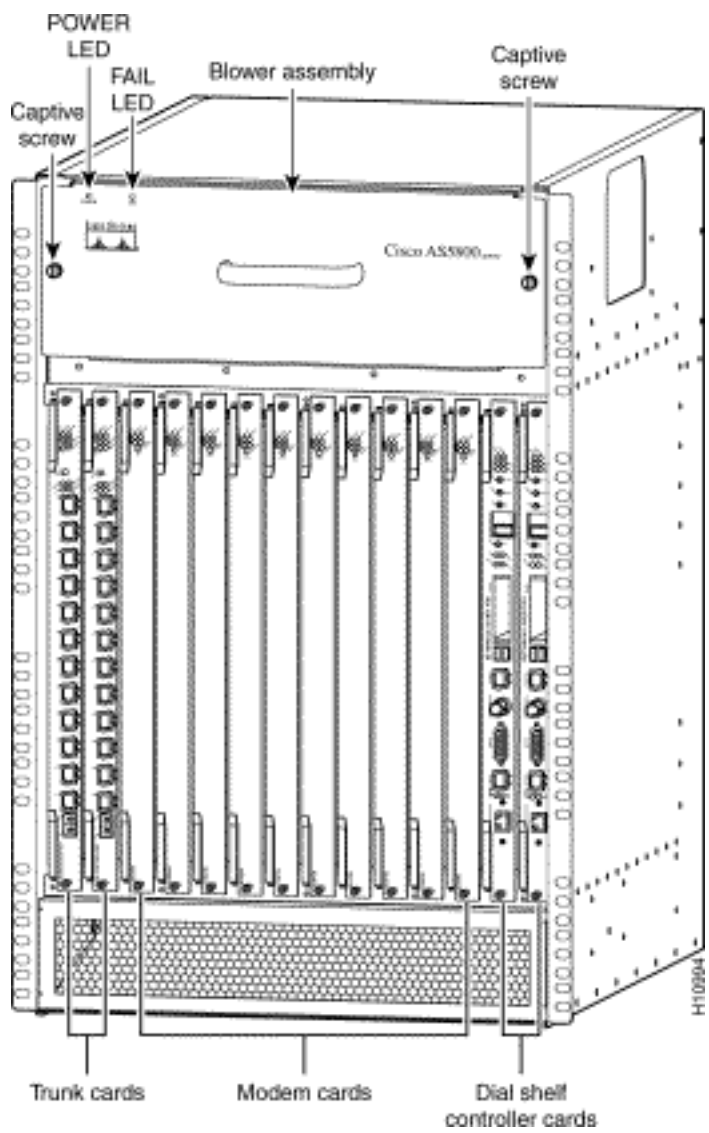


图40 拨号架控制器卡(DS58-DSC)

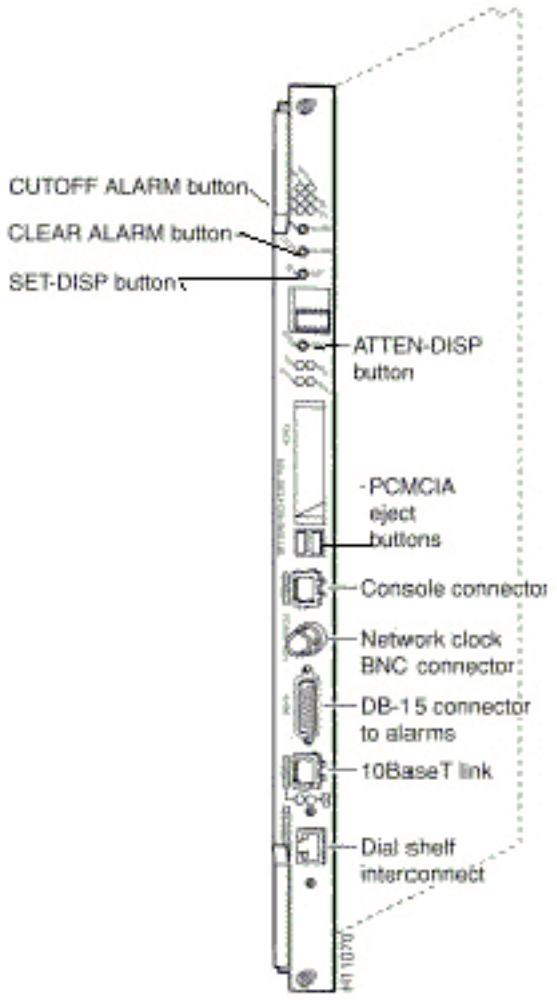


图41 – Cisco 7206 Router架子后视图

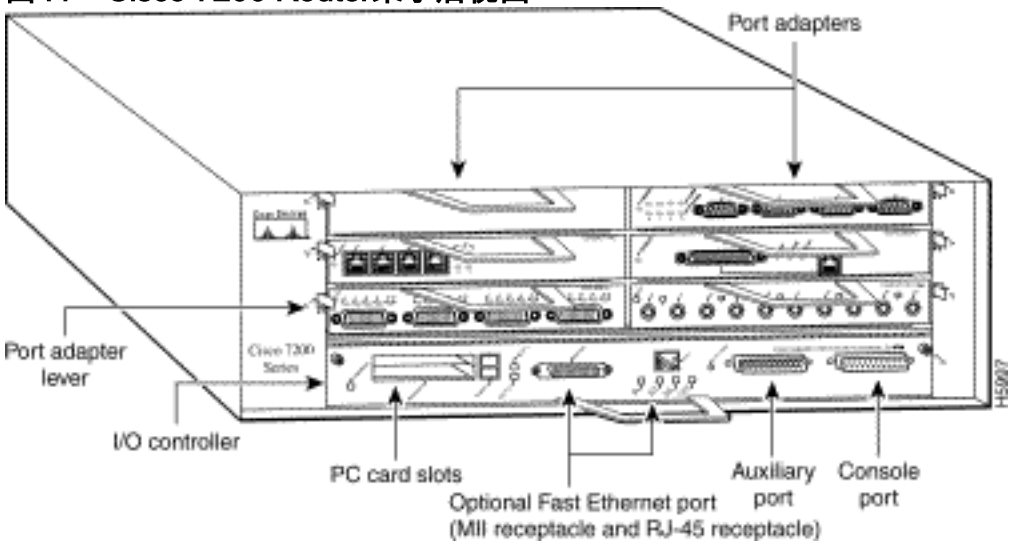
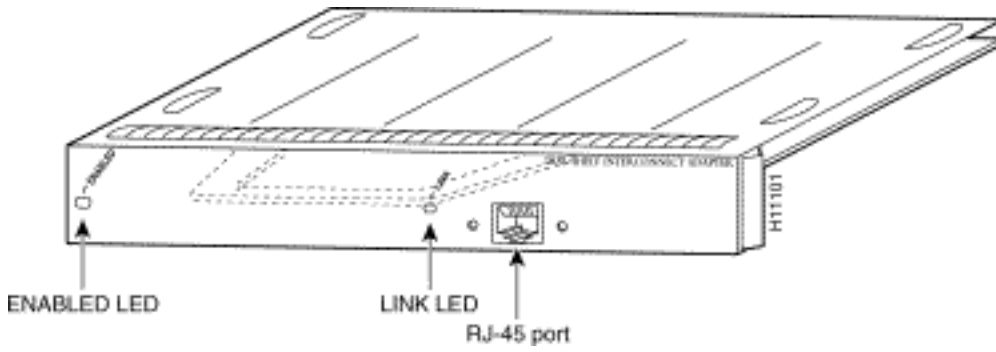
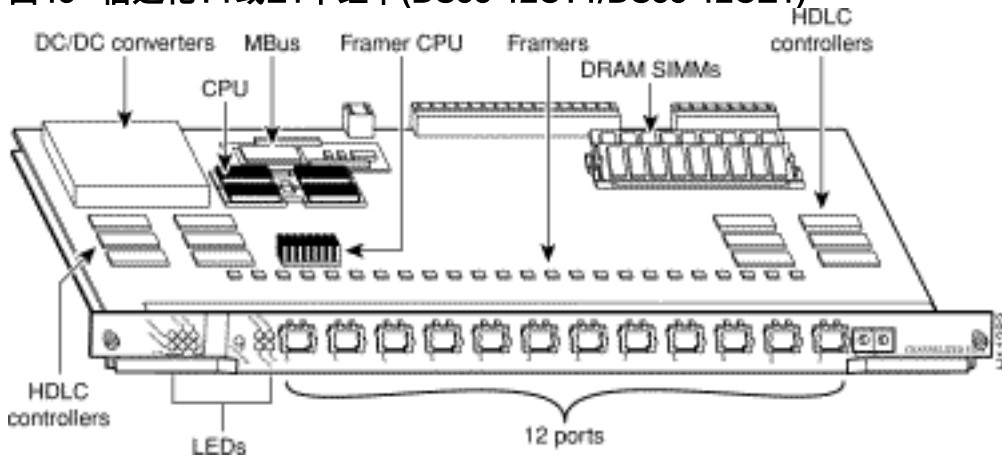


图42 – 拨号架互联端口适配器



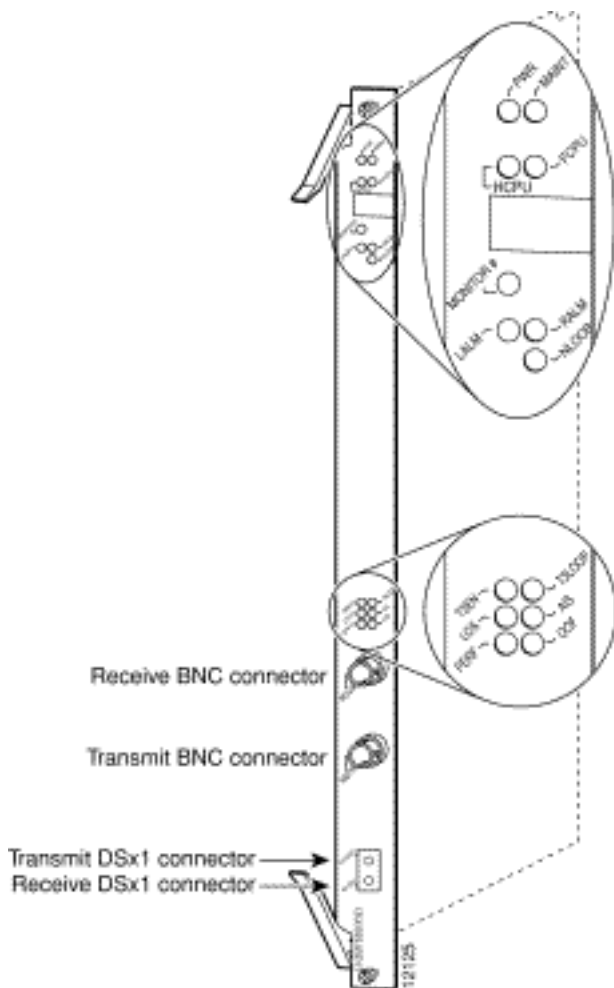
Cisco AS5800有连接Cisco 5814拨号架到思科7206路由器架子的拨号架互联端口适配器。使用单个全双工电缆，互连端口适配器在所有7206路由器架子端口适配器槽上安装，并且连接直接地到在拨号架的拨号架控制器卡。

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



Cisco AS5800通用访问服务器支持信道化T1 (CTL)和信道化E1(CEL)接口。CT1和CE1中继线卡在AS5800的Cisco 5814拨号架上安装。

图44 – CT3中继线卡(DS58-1CT3)

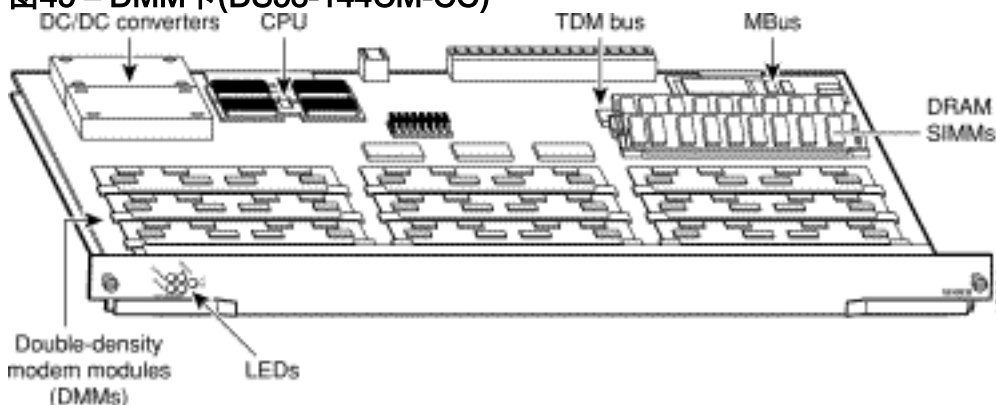


Cisco AS5800通用访问服务器支持信道化的T3 (CT3)。CT3中继线卡在Cisco中虽则安装在slot的5814个拨号架机箱0 5。

内部调制解调器

AS5800接入服务器支持此内部调制解调器：

图45 – DMM卡(DS58-144CM-CC)



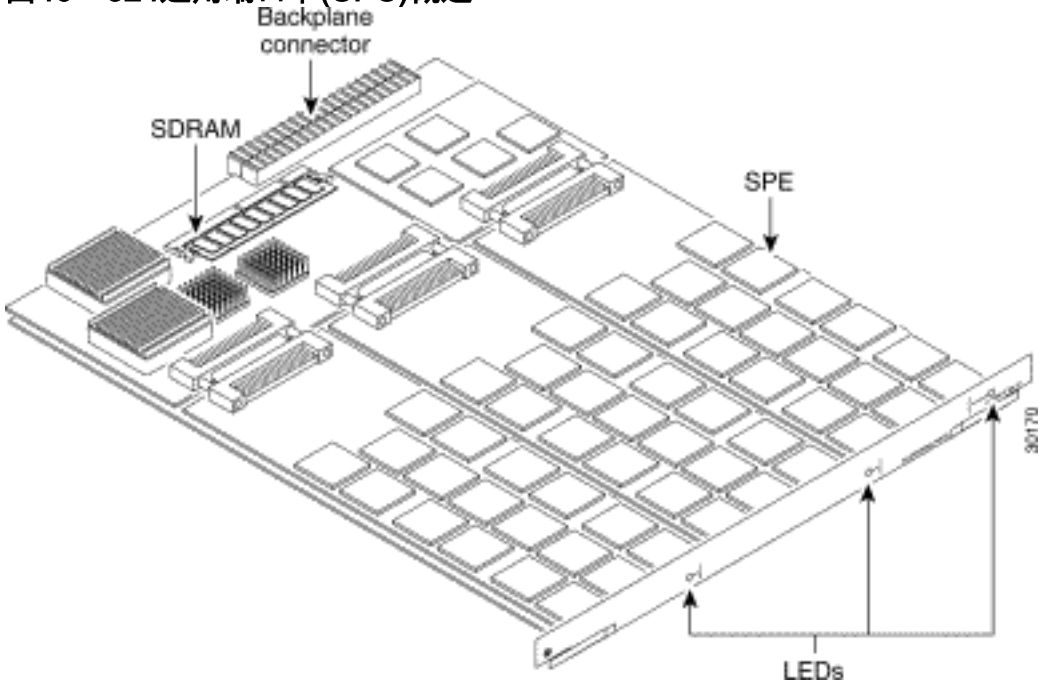
Cisco AS5800适应最多10个DMM卡。每个DMM卡包含12个DMM SIMM。每个DMM SIMM包含12个数字调制解调器。因为有在每个DMM调制解调器卡的12 DMMs，每个卡可以支持最多144调制解调器。DMM卡可以在第的slot找到0至11在拨号架背板。

显示调制解调器代码版本

发出与Cisco IOS软件捆绑在一起的**show spe version**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。**show spe version**命令也显示运行在一个特定模块的固件版本。

```
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



提供通用端口的324 UPC用途NextPort硬件和固件为Cisco AS5800 (UPC有时指NextPort模块)。这些端口被聚合到Spe，其中每一支持六个通用端口。有每个UPC 54 Spe，总共324个端口的每个UPC。

显示调制解调器代码版本

发出与Cisco IOS软件捆绑在一起的**show spe version**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。**show spe version**命令也显示运行在特定SPE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 =====
slot0:np.spe_36 0.6.6.5
```

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
```

欲知更多信息，请参见[了解NextPort SPE版本](#)和[NextPort SPE和IOS软件版本参考表](#)。

AS5850

要帮助识别您有的调制解调器和载波卡，您需要查看AS5850的前面板。

图47 – Cisco AS5850-Front视图

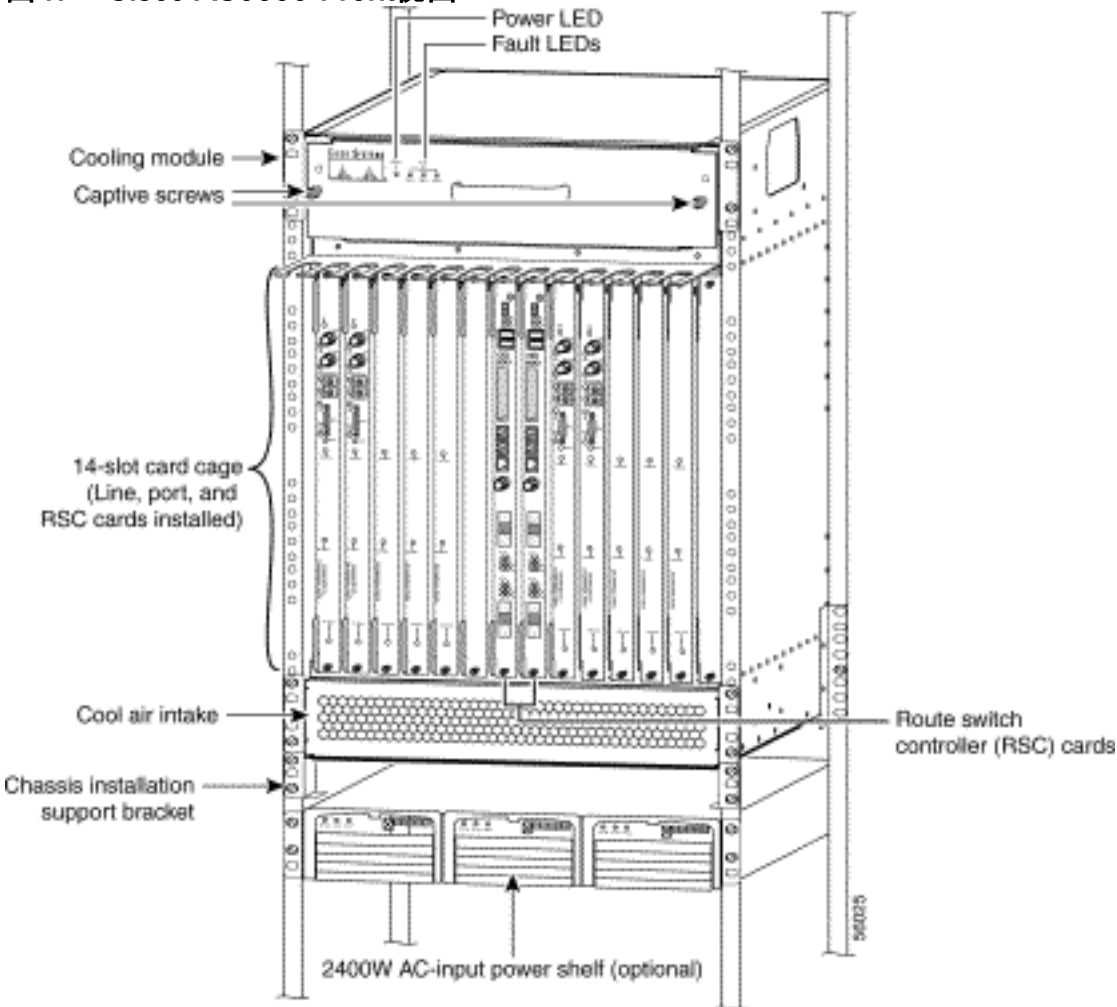
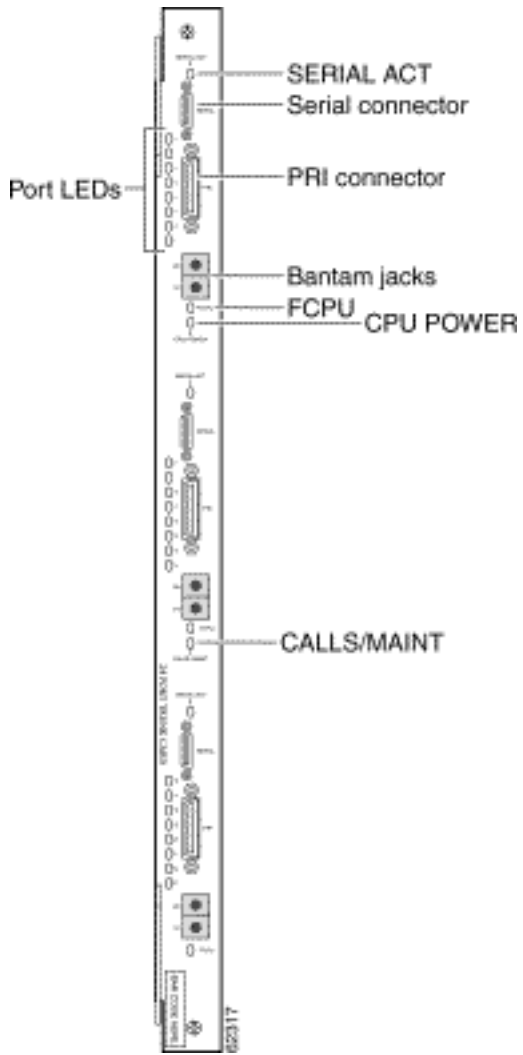
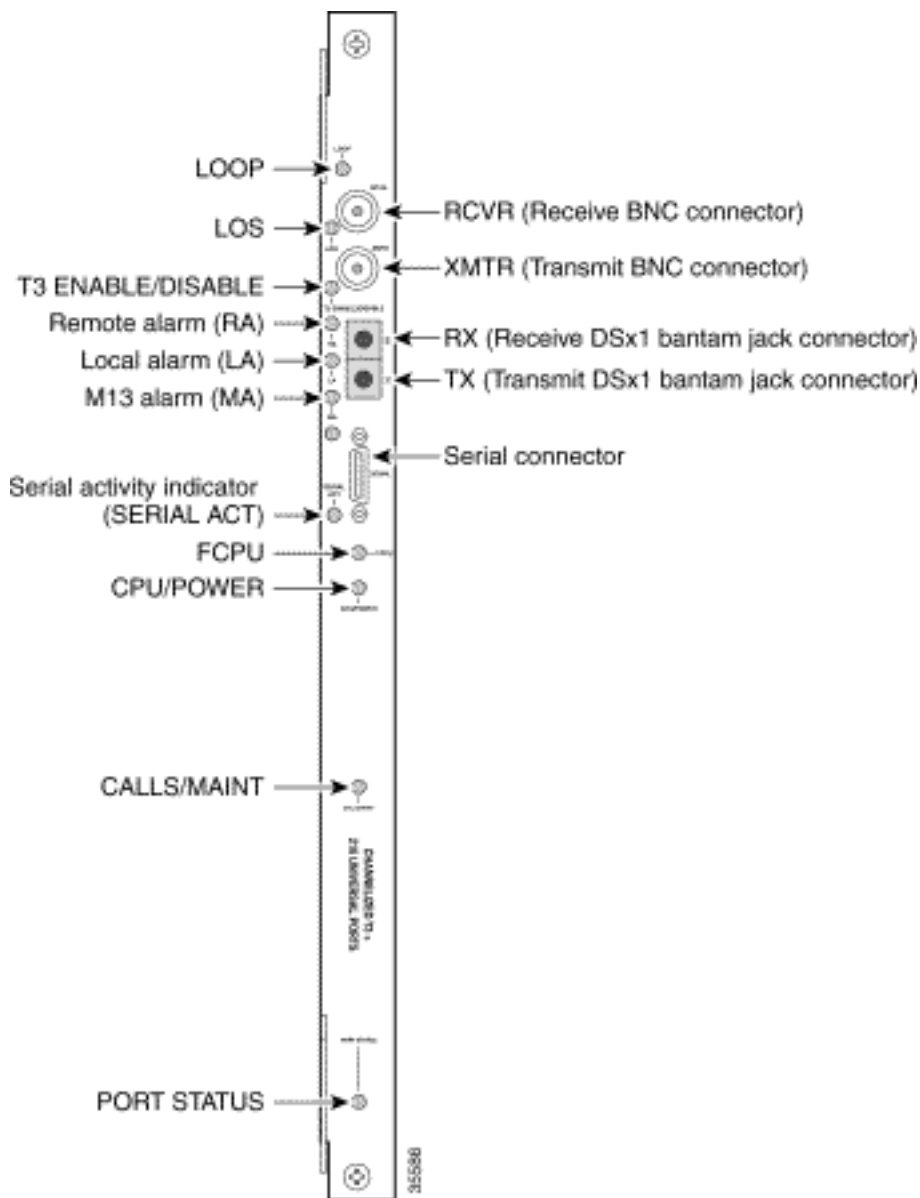


图48 – 24 CT1/CE1中继线卡(AS58-24CT1 /AS58-24CE1)



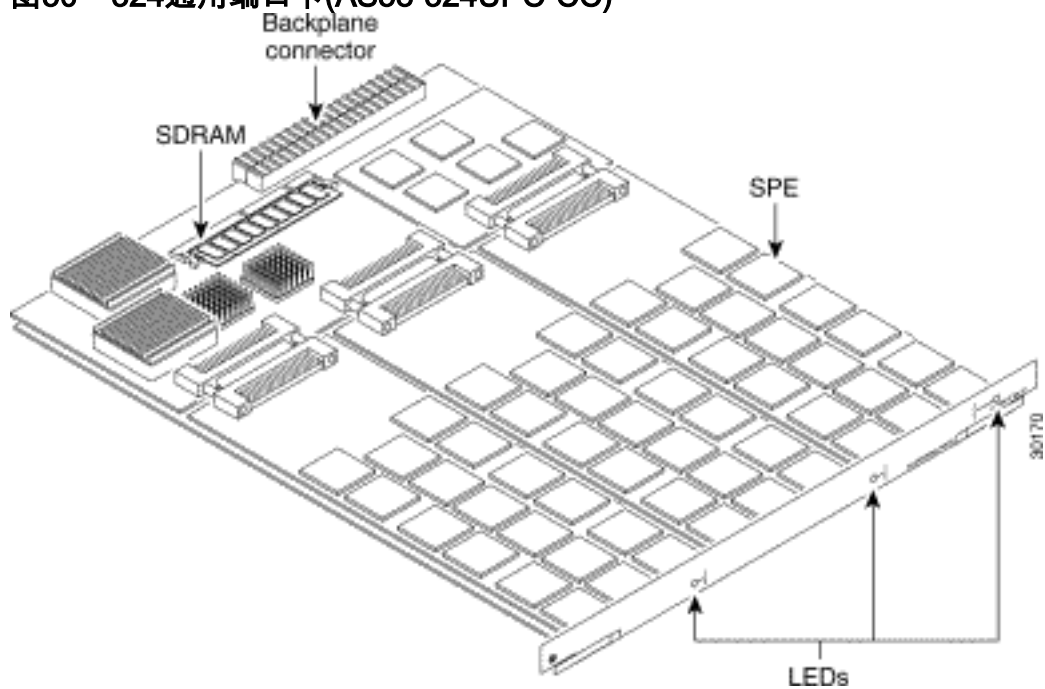
24个CT1/E1中继线卡为多达提供物理终端24条T1/E1线路并且连接到一个外部网络终端(NT1)设备。

图49 -信道化的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)



通用端口能运载网络流量一个DS0等同。核心硬件组件是Spe，其中每一支持六个通用端口。有每个UPC 54 Spe，总共324个端口的每个UPC。

[内部调制解调器](#)

仅AS5850接入服务器支持NextPort调制解调器。

[显示调制解调器代码版本](#)

发出与Cisco IOS软件捆绑在一起的**show spe version**命令列出在引导闪存和系统闪存的所有调制解调器代码文件，以及调制解调器代码文件。**show spe version**命令也显示运行在特定SPE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
```

欲知更多信息，请参见[了解NextPort SPE版本](#)和[NextPort SPE和IOS软件版本参考表](#)。

[Related Information](#)

- [Cisco AS5200硬件/Cisco IOS软件兼容表](#)
- [Cisco AS5350和Cisco AS5400通用网网关卡安装指南](#)
- [接入技术支持页面](#)
- [工具和实用程序- Cisco系统\(仅限注册用户\)](#)
- [Technical Support - Cisco Systems](#)