



Connecting Cisco Unity Express Network Modules to the Network

Revised: May 1, 2008, OL-12827-01

This guide describes how to connect Cisco Unity Express network modules to your network. It contains the following sections:

- [Cisco Unity Express Network Module Overview, page 1](#)
- [Cisco Unity Express Network Module LEDs, page 2](#)
- [Online Insertion and Removal with a Cisco Unity Express Network Module, page 3](#)
- [Related Documents, page 5](#)

Cisco Unity Express Network Module Overview

This section provides information on the Cisco Unity Express network module (NM-CUE). (See [Figure 1](#).)



Caution

To comply with the Telcordia GR-1089 NEBS standard for electromagnetic compatibility and safety, connect the Cisco Unity Express network module (NM-CUE) only to intrabuilding or nonexposed wiring or cabling. The intrabuilding cable must be shielded and the shield must be grounded at both ends.



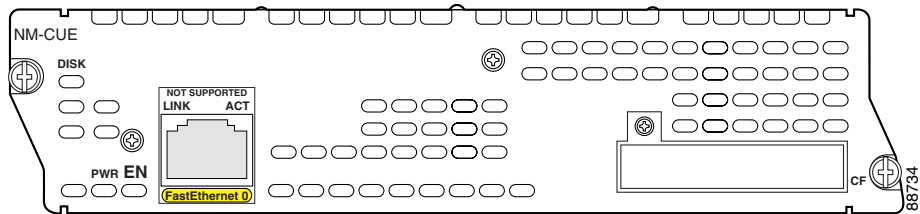
Note

The Fast Ethernet port and CompactFlash slot, though available on the hardware, are not supported by the Cisco Unity Express network module. The compact Flash slot has a metal cover.



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

Figure 1 NM-CUE Faceplate



Cisco Unity Express Network Module LEDs

All network modules have an enable (EN) LED. This LED indicates that the module has passed its self-tests and is available to the router.

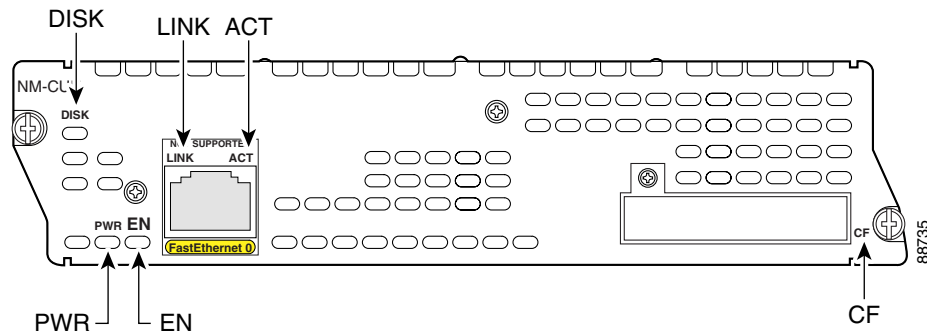
All Cisco Unity Express network modules display an additional power (PWR) LED and a CompactFlash (CF) LED on the faceplate, and two additional LEDs for the Fast Ethernet port. (See [Figure 2](#).)



Note

The CF and Fast Ethernet port LEDs are not used by the Cisco Unity Express network module.

Figure 2 NM-CUE LEDs



LED	Meaning
ACT	There is activity on the Fast Ethernet connection. Note This LED is not used on the NM-CUE.
CF	The compact Flash module is active. Note This LED is not used on the NM-CUE.
DISK	There is activity on the 20-GB disk-expansion module hard drive.
EN	The module has passed self-test and is available to the router.
LINK	The Fast Ethernet connection is available to the network module. Note This LED is not used on the NM-CUE.
PWR	Power is available to the network module.

Online Insertion and Removal with a Cisco Unity Express Network Module

Some Cisco modular access routers allow you to replace network modules without switching off the router or affecting the operation of other interfaces. This feature is often called hot-swapping or online insertion and removal (OIR). Hot-swapping of network modules provides uninterrupted operation to network users, maintains routing information, and ensures session preservation.

**Caution**

Cisco Unity Express network modules use hard disks. Online removal of disks without proper shutdown can result in file system corruption and might render the disk unusable. The operating system on the Cisco Unity Express network module must be shut down in an orderly fashion before the network module is removed.

**Caution**

Cisco routers support hot-swapping with similar modules only. If you remove a network module, install another module exactly like it in its place.

For a description of informational and error messages that may appear on the console during this procedure, see the hardware installation guide for your type of router.

To perform online removal of a Cisco Unity Express network module and insertion of a replacement, follow these steps with the router in privileged EXEC mode:

Step 1 Initiate a Cisco Unity Express network module console access session using the following command:

```
Router# service-module service-engine slot/port session
```

```
Trying 10.10.10.1, 2129 ... Open
```

```
SE-netmodule> enable
```

```
Password:
```

```
SE-netmodule#
```

```
SE-netmodule con now available
```

```
Press RETURN to get started!
```

```
SE-netmodule> enable
```

```
Password:
```

```
SE-netmodule#
```

**Timesaver**

The Cisco Unity Express network module uses a blank password. Press **Enter** at the password prompt.

Step 2 Save the running configuration of the Cisco Unity Express network module using the following command from the SE-netmodule prompt:

```
SE-netmodule# copy running-config ftp:
```

```
Address or name or remote host? username/password/remote host
```

```
Destination filename? filename
```

Step 3 Exit the Cisco Unity Express network module console access session by pressing **Ctrl-Shift-6**, followed by **x**.

- Step 4** On the router, clear the Cisco Unity Express network module console access session by using the following command:
- ```
Router# service-module service-engine slot/port session clear
```
- Step 5** Perform a graceful halt of the Cisco Unity Express network module disk drive by using the following command:
- ```
Router# service-module service-engine slot/port shutdown
```
- Step 6** Loosen the two captive screws holding the Cisco Unity Express network module in the chassis slot.
- Step 7** Slide the Cisco Unity Express network module out of the slot.
- Step 8** Align the replacement Cisco Unity Express network module with the guides in the chassis slot, and slide it gently into the slot.



Note If the router is not fully configured with network modules, make sure that blank panels fill the unoccupied chassis slots to provide proper airflow.

- Step 9** Push the module into place until you feel its edge connector mate securely with the connector on the backplane.
- Step 10** Tighten the two captive screws on the module faceplate.
- Step 11** Check that the network module LEDs come on and that the power and enable LEDs on the front panel have also come on. This inspection ensures that connections are secure and that the new unit is operational.
- Step 12** Initiate a Cisco Unity Express network module console access session with the following command:
- ```
Router# service-module service-engine slot/port session

Trying 10.10.10.1, 2129 ... Open

SE-netmodule con now available

Press RETURN to get started!

SE-netmodule> enable
SE-netmodule#
```
- Step 13** Restore the Cisco Unity Express running configuration by using the following command from the SE-netmodule prompt:
- ```
SE-netmodule# copy ftp: running-config

Address or name or remote host? username/password/remote host
Source filename? filename
```
- Step 14** Exit the Cisco Unity Express network module console access session by pressing **Ctrl-Shift-6**, followed by **x**.
- Step 15** On the router, clear the console access session using the following command:
- ```
Router# service-module service-engine slot/port session clear
```
-

## Related Documents

For additional information, see the following documents and resources.

| Related Topic                                          | Document Title                                                                                                                                                                                                                                                         |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cisco Unity Express software documentation             | <i>Cisco Unity Express</i><br><a href="http://www.cisco.com/en/US/products/sw/voicesw/ps5520/tsd_products_support_series_home.html">http://www.cisco.com/en/US/products/sw/voicesw/ps5520/tsd_products_support_series_home.html</a>                                    |
| Regulatory compliance and safety information           | <i>Cisco Network Modules and Interface Cards Regulatory Compliance and Safety Information</i><br><a href="http://www.cisco.com/en/US/docs/routers/access/interfaces/rcsi/IOHrcsi.html">http://www.cisco.com/en/US/docs/routers/access/interfaces/rcsi/IOHrcsi.html</a> |
| Cisco IOS software website and reference documentation | <i>Cisco IOS Software</i><br><a href="http://www.cisco.com/web/psa/products/index.html?c=268438303">http://www.cisco.com/web/psa/products/index.html?c=268438303</a>                                                                                                   |

## Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

CCDE, CCENT, CCSI, Cisco Eos, Cisco HealthPresence, Cisco IronPort, the Cisco logo, Cisco Nurse Connect, Cisco Pulse, Cisco SensorBase, Cisco StackPower, Cisco StadiumVision, Cisco TelePresence, Cisco Unified Computing System, Cisco WebEx, DCE, Flip Channels, Flip for Good, Flip Mino, Flipshare (Design), Flip Ultra, Flip Video, Flip Video (Design), Instant Broadband, and Welcome to the Human Network are trademarks; Changing the Way We Work, Live, Play, and Learn, Cisco Capital, Cisco Capital (Design), Cisco:Financed (Stylized), Cisco Store, Flip Gift Card, and One Million Acts of Green are service marks; and Access Registrar, Aironet, AllTouch, AsyncOS, Bringing the Meeting To You, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, CCVP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Lumin, Cisco Nexus, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Collaboration Without Limitation, Continuum, EtherFast, EtherSwitch, Event Center, Explorer, Follow Me Browsing, GainMaker, iLYNX, IOS, iPhone, IronPort, the IronPort logo, Laser Link, LightStream, Linksys, MeetingPlace, MeetingPlace Chime Sound, MGX, Networkers, Networking Academy, PCNow, PIX, PowerKEY, PowerPanels, PowerTV, PowerTV (Design), PowerVu, Prisma, ProConnect, ROSA, SenderBase, SMARTnet, Spectrum Expert, StackWise, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0910R)

Any Internet Protocol (IP) addresses used in this document are not intended to be actual addresses. Any examples, command display output, and figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses in illustrative content is unintentional and coincidental.

© 2008 Cisco Systems, Inc. All rights reserved.

