

Hotwire™ MCC Card, IP Conservative Installation Instructions

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What is a Hotwire™ MCC Card?

Hotwire Management Communications Controller (MCC) cards (MCC, MCC Plus and MCP) are processor circuit card assemblies (CCAs) that administer and provide diagnostic connectivity to all of the Digital Subscriber Line (DSL) cards in a Hotwire DSL Access Multiplexer (DSLAM) chassis (8600, 8610, 8800, or 8810).

Use this MCC Card . . .	In this DSLAM Chassis. . .
MCC, MCC Plus	8600, 8800, or 8810
MCP	8610

CAUTION:

Do not insert the MCC/MCP/MCC Plus card into a slot other than the slot it is intended for (Slot 1 for 8600/8610, Slot 19 for 8800/8810) as this will damage the DSLAM chassis. The MCP card only must be used in Slot 1 of the base 8610 chassis for proper functionality.

NOTE:

All references to MCC cards in this document refer to the MCC, MCP (Management Control Processor) and MCC Plus cards, unless specifically noted otherwise.

The MCC card acts as a mid-level manager and works in conjunction with a Simple Network Management Protocol (SNMP) network management system (NMS), such as Paradyne's OpenLane™ DCE Manager, via its Ethernet port. The MCC card gathers operational status for each of the DSL cards and Hotwire Service Nodes and responds to the SNMP requests (via Proxy ARP). It also supports a serial port for local or remote terminal access.

Product Documentation on the World Wide Web

We provide complete product documentation online. This lets you search the documentation for specific topics and print only what you need, reducing the waste of surplus printing. It also helps us maintain competitive prices for our products.

Complete documentation for this product is available at www.paradyne.com. Select *Library* → *Technical Manuals* → *Hotwire DSL & MVL Systems*.

Select the following documents:

8000-A2-GB22

Hotwire Management Communications Controller (MCC) Card, IP Conservative, User's Guide

8000-A2-GB26

Hotwire DSLAM for 8310/8312 MVL and 8510 RADSL Cards User's Guide

8000-A2-GB27

Hotwire DSLAM for 8310/8312 MVL and 8510 RADSL Cards Network Configuration Guide

To order a paper copy of a Paradyne document:

- Within the U.S.A., call 1-800-PARADYNE (1-800-727-2396)
- Outside the U.S.A., call 1-727-530-8623

MCC Card Installation Planning

- Each Hotwire DSLAM is shipped with one of the following installation documents:

Document Number	Document Title
8600-A2-GN20	<i>Hotwire 8600 Digital Subscriber Line Access Multiplexer (DSLAM) Installation Guide</i>
8610-A2-GN10	<i>Hotwire 8610 DSLAM Installation Instructions</i>
8800-A2-GN21	<i>Hotwire 8800 Digital Subscriber Line Access Multiplexer (DSLAM) Installation guide</i>
8810-A2-GN11	<i>Hotwire 8810 DSLAM Installation Instructions</i>

- Refer to one of the DSLAM installation documents to:
 - Install and physically set up the Hotwire DSLAM
 - Install the Hotwire MCC Card
 - Connect cables
- After the MCC card is installed, there are configuration procedures that must be performed before you can begin to use the MCC card for Internet or intranet connectivity. Refer to the *Hotwire Management Communications Controller (MCC) Card, IP Conservative, User's Guide* and the *Hotwire DSLAM for 8310/8312 MVL and 8510 RADSL Cards Network Configuration Guide* to configure the Hotwire MCC Card. Access these documents per the instructions in *Product Documentation on the World Wide Web*.

MCC Card Installation

The MCC card is designed to fit into:

- Slot 19 of the 8800/8810 DSLAM, and
- Slot 1 of the 8600/8610 DSLAM.

Do not attempt to install the MCC card into any other slot. Only one MCC card is needed in Slot 1 of the base chassis in a stack of 8600/8610 chassis.

► Procedure

To install a circuit card in the Hotwire DSLAM chassis:

1. If there is a filler plate covering the slot, remove it.
2. Insert the card into the card guides of the slot on the chassis. For the 8600/8610 DSLAM, ensure that the components are on the top.
3. Carefully slide the card into the slot. Gently, but firmly, push the card until it engages its mating connectors on the backplane.
4. Make sure the OK SYSTEM indicator on the card's faceplate is ON (green). If not, refer to *Troubleshooting* in the appropriate DSLAM document.
5. Secure the card by fastening the screws on each end of the faceplate. This is required to maintain proper gasket pressure on the faceplate as well as proper air flow.

MCC Card Cabling

Refer to the appropriate DSLAM installation document to make the following cable connections:

- Serial to a terminal, computer, etc.
- Management to an SNMP Management system network

NOTE:

For the new MCC cards, management connection is through the LAN modular jack (Slot 19 connector on the 8800/8810 and Slot 1 connector on the 8600/8610) rather than the MGT 10BT connector on the DSLAM chassis.

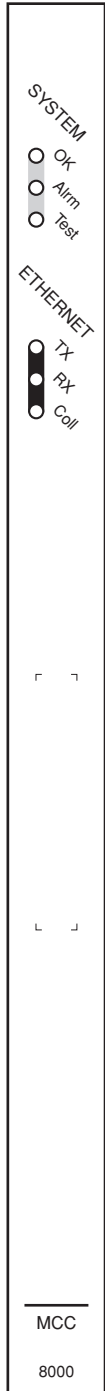
- Ethernet to 10BaseT Ethernet ports
- Power to ac or dc power

After the MCC card is installed and cables attached, there are configuration procedures that must be performed before you can begin to use the MCC card. Refer to the *Hotwire Management Communications Controller (MCC) Card, IP Conservative, User's Guide* for more information.

MCC Card Technical Specifications

Specifications	Criteria*
Size	Length: 10.4 inches (26.42 cm) Height: 11.15 inches (28.32 cm) Width: 0.8 inches (2.03 cm)
Weight	Approximately 1 lb. (.45 kg)
Approvals Safety Certifications	Refer to the equipment's label for approvals on product.
Power	The MCC card contains a dc-to-dc converter that requires -48V power input. The -48V power is distributed through the Hotwire DSLAM backplane. Maximum Power Dissipation = approx. 8 watts
Physical Environment Operating temperature Storage temperature Relative humidity Shock and vibration	32° to 122° F (0° to 50° C) -4° F to 158° F (-20° C to 70° C) 5% to 85% (noncondensing) Withstands normal shipping and handling.
* Criteria of technical specifications are subject to change without notice.	

MCC/MCP/MCC Plus Card LEDs



The following table describes the meaning and states of the LEDs on the MCC cards faceplate.

Type	LED	LED is . . .	Indicating . . .
SYSTEM	OK	Green, Winking*	Normal operation; card functioning normally.
		On	MCC card failure. System processing functions have stopped.
		Off	No power to card.
SYSTEM	Alarm	Yellow	Alarm present on MCC.
		Off	Normal operation; no alarms.
SYSTEM	Test	Yellow	Test in progress.
		Off	Normal operation; no tests.
ETHERNET	TX	Green, Blinking	Data is being transmitted from the MCC.
		Off	Inactive.
	ETHERNET	RX	Green, Blinking
Off			Inactive.
ETHERNET	Coll	Yellow, Blinking	A collision has been detected.
		Off	Normal operation.
* Winking describes a recurring pulse when the LED is ON longer than OFF, at approximately a 10:1 ratio.			

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Warranty, Sales, Service, and Training Information

Contact your local sales representative, service representative, or distributor directly for any help needed. For additional information concerning warranty, sales, service, repair, installation, documentation, training, distributor locations, or Paradyne worldwide office locations, use one of the following methods:

- **Internet:** Visit the Paradyne World Wide Web site at www.paradyne.com. (Be sure to register your warranty there. Select *Service & Support* → *Warranty Registration*.)
- **Telephone:** Call our automated system to receive current information by fax or to speak with a company representative.
 - Within the U.S.A., call 1-800-870-2221
 - Outside the U.S.A., call 1-727-530-2340

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