

Hotwire® MCC Card, IP Conservative Installation Instructions

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Hotwire MCC Cards

Hotwire® Management Communications Controller (MCC) cards (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 8600/8610/8800/8810 DSL Access Multiplexer (DSLAM) or 8620/8820 GrandSLAM™.

Use this MCC Card . . .	In this Hotwire Chassis . . .	Insert in this slot . . .
MCC Plus (8000-B2-111)	8600 8800 8810	Slot 1 of base chassis Slot 19 Slot 19
MCP (8000-B2-211)	8610 8620 8820	Slot 1 of base chassis Slot 1 Slot 9
MCP (8900-B1-211)	8620 with SCP Card 8820 with SCP Card	Slot 1 Slot 9

CAUTION:

Do not insert the MCC/MCP/MCC Plus card into a slot other than the slot it is intended for (see table above) as this will damage the chassis.

NOTE:

All references to MCC cards in this document refer to the 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 Online

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

Select the following documents:

8000-A2-GB22

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

8400-A2-GB20

Hotwire Shelf Concentration and Processing (SCP) Card User's Guide

8400-A2-GN20

*Hotwire Shelf Concentration and Processing (SCP) Card Installation
Instructions*

To order a paper copy of a Paradyne document, or to speak with a sales representative, please call 1-727-530-2000.

MCC Card Installation Planning

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

Document Number	Document Title
8600-A2-GN20	<i>Hotwire 8600 DSLAM Installation Guide</i>
8610-A2-GN20	<i>Hotwire 8610 DSLAM Installation Guide</i>
8620-A2-GN20	<i>Hotwire 8620 GranDSLAM Installation Guide</i>
8800-A2-GN20	<i>Hotwire 8800 DSLAM Installation Guide</i>
8810-A2-GN21	<i>Hotwire 8810 DSLAM Installation Guide</i>
8820-A2-GN20	<i>Hotwire 8820 GranDSLAM Installation Guide</i>

- Refer to one of the installation documents to:
 - Install and set up the Hotwire chassis
 - 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* to configure the Hotwire MCC Card. Access this document using the instructions in *Product Documentation Online*.

Installing the MCC Card

The MCC card is designed to fit into:

- Slot 19 of the 8800/8810 DSLAM,
- Slot 1 of the 8600/8610 DSLAM,
- Slot 1 of the 8620 GrandSLAM, and
- Slot 9 of the 8820 GrandSLAM.

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 a Hotwire 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 8600/8610/8620 DSLAM, ensure that the components are facing up.
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 the appropriate chassis installation 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 chassis 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 8600/8610/8620, or Slot 9 on the 8820 GrandSLAM) rather than the MGT 10BT connector on the DSLAM chassis.

- 10BaseT Ethernet ports to a network interface card or hub
- Power to ac or dc power

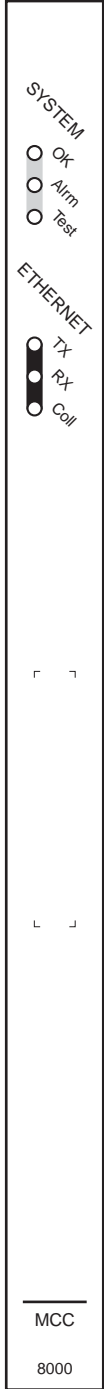
NOTE:

For the 8820 GrandSLAM chassis with an SCM card, the MCP management interface may be configured as internal to the SCM. If so, no Ethernet cable is required.

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.

MCP/MCC Plus Card LEDs

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



Type	LED	LED is . . .	Indicating . . .
SYSTEM	OK	Green, Cycling*	Normal operation; card functioning normally.
		Green, On	MCC card failure. System processing functions have stopped.
		Off	No power to card.
	Alarm	Yellow, On	Alarm present on MCC.
		Off	Normal operation; no alarms.
	Test	Yellow, On	Test in progress.
		Off	Normal operation; no tests.
ETHERNET	TX	Green	Data is being transmitted from the MCC.
		Off	Inactive.
	RX	Green	Data is being received.
		Off	Inactive.
	Coll	Yellow, Blinking	A collision has been detected.
		Off	Normal operation.

* Cycling describes a recurring pulse when the LED is ON longer than OFF, at approximately a 10:1 ratio.

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 chassis 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.

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 at www.paradyne.com/warranty.)
- **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

Document Feedback

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