

UIM-10/100

Installation Instructions

Document Number UIM1-A2-GZ40-00

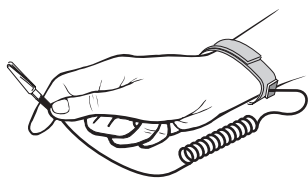
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Contents

Unpacking the Equipment	1
Using the UIM an IP DSLAM	2
Installing the UIM in a Mini DSLAM	3
Establishing the Ethernet Connection	4
10/100BaseT Connector Pinouts	4
LED Indicators	5
Product Documentation Online	5
Warranty, Sales, Service, and Training Information	5
EMI Notices	6

Unpacking the Equipment

HANDLING PRECAUTIONS FOR STATIC-SENSITIVE DEVICES



This product is designed to protect sensitive components from damage due to electrostatic discharge (ESD) during normal operation. When performing installation procedures, however, take proper static control precautions to prevent damage to equipment. If you are not sure of the proper static control precautions, contact your nearest sales or service representative.

Unpack and inspect the equipment. The following components should be included:

- 1 UIM-10/100 Uplink Interface Module
- 4 #6 Phillips Panhead Internal Locking Screws
- 2 #6 Phillips Flathead Screws

If there is visible damage, do not attempt to connect the device; contact your sales representative.

Using the UIM an IP DSLAM

Use of the UIM in a multi-slot IP DSLAM requires that you install the UIM in a Multiplexer Uplink Module (MUM), then install the MUM in the DSLAM chassis.

Installing the UIM in a MUM

The UIM may be attached to a MUM that has already been in service, although you must remove the MUM from the IP DSLAM in order to do so. Removal of a MUM from an IP DSLAM chassis that is powered up will not affect the operational status of other modules within the chassis; it will, however, disengage the IP DSLAM's upstream network connection.

► Procedure

To install the UIM:

1. Place the MUM on a flat surface with the circuit board facing up.
2. Select a port on the MUM for UIM installation; either port (1 or 2) may be used. Although not required for operational purposes, if redundancy is desired, two UIMs may be installed on the MUM.
3. Remove the slot cover from the selected port.

Store slot covers for possible future use. If a UIM is removed from a MUM, it must be replaced with either another UIM or a slot cover. Do not install a MUM with an open UIM port into an IP DSLAM.

4. Carefully slide the faceplate of the UIM under the lip of the MUM faceplate at the selected port opening such that the UIM circuit board is face down and the UIM label shows through the port opening with the model name along the right side.
5. Ensure the mounting holes on the UIM are lined up with the corresponding standoffs on the MUM and the board-to-board connector key pins are properly aligned.
6. Gently press down with even pressure on all four corners of the UIM until the board-to-board connector is fully seated.
7. Secure the boards together at the standoffs with the four provided panhead screws.
8. Secure the UIM faceplate to the MUM faceplate using the two provided flathead screws.

Installing the MUM in an IP DSLAM chassis.

The 12000E is a fourteen slot chassis; slots 1–12 are reserved for access modules and slots U1 and U2 are reserved for Multiplexer Uplink Modules (MUMs). The 4000E is a five slot chassis; slots 1–4 are reserved for access modules and slot U1 is reserved for a MUM.

► Procedure

To install a MUM:

1. Align the MUM with the slot module guides of the chosen slot for installation (either slot U1 or U2 on the 12000E or slot U1 on the 4000E).
2. Slide the MUM carefully but firmly into the chassis until it is fully seated.
3. Tighten the fastening screws on the MUM faceplate.
4. Verify that the PWR (Power) LED on the MUM faceplate is illuminated.

Installing the UIM in a Mini DSLAM

Caution:

Disconnect all power sources from the Mini DSLAM before installing the UIM.

► Procedure

To install a UIM in a Mini DSLAM:

1. Remove the eight screws securing the Mini DSLAM chassis and carefully lift off the chassis cover. Set the screws aside.
2. Select a port on the Mini DSLAM for UIM installation; either port (1 or 2) may be used. Although not required for operational purposes, if redundancy is desired, two UIMs may be installed in the Mini DSLAM.
3. Remove the slot cover from the selected port.

Store slot covers for possible future use. If a UIM is removed from a DSLAM, it must be replaced with either another UIM or a slot cover. Do not operate a Mini DSLAM with an open UIM slot.

4. Carefully slide the faceplate of the UIM under the inside lip of the Mini DSLAM at the selected port opening such that the UIM circuit board is face down and the UIM label shows through the port opening with the model name along the right edge.
5. Ensure the mounting holes on the UIM are lined up with the corresponding pems on the Mini DSLAM board and the board-to-board connector key pins are properly aligned.
6. Gently press down with even pressure on all four corners of the UIM until the board-to-board connector is fully seated.

7. Secure the boards together at the pems with the four provided panhead screws.
8. Secure the UIM faceplate to the front of the Mini DSLAM chassis using the two provided flathead screws.
9. Replace the Mini DSLAM chassis cover and secure with the original eight screws.

Establishing the Ethernet Connection

The Ethernet port is 10/100BaseT auto-negotiating. Set your hub or switch to auto-negotiate (if applicable) before making the Ethernet connection. Plug the Ethernet cable into the Ethernet RJ45 port on the UIM faceplate. Verify the connection: solid illumination of the Lnk LED on the UIM faceplate indicates an Ethernet link has been established. If the Lnk LED is illuminated but not the 100 LED then a 10 Mbps link has been established. If the 100 LED is also illuminated, then a 100 Mbps link has been established.

For most applications, the UIM-10/100 connects to a router or a PC using a straight-through Ethernet cable and to a hub or a switch using a crossover Ethernet cable. For any other connection combinations you must verify the pinout of the Ethernet device into which you are connecting the UIM-10/100 in order to determine which type of cable is required.

10/100BaseT Connector Pinouts

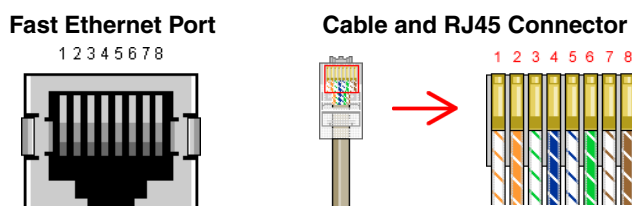


Table 1. 10/100BaseT (RJ45) Port

Pin	Connection
1	Rx+
2	Rx-
3	Tx+
4	not used
5	not used
6	Tx-
7	not used
8	not used

LED Indicators

Table 2. LEDs

LED	State	Meaning	Additional Information
100	solid green	Fast Ethernet connection (100 Mbps) is established	If the 100 LED is illuminated, the Lnk LED will also be illuminated.
	no illumination	no Fast Ethernet connection	If the 100 LED remains unlit but the Lnk LED is illuminated then a link has been established at 10 Mbps rather than 100 Mbps.
Act	flashing amber	Ethernet activity	Traffic is flowing without any problems.
	solid amber	heavy traffic	
	no illumination	no Ethernet activity	Either there is no Ethernet link or a link exists but there is no activity.
Lnk	solid green	Ethernet connection is established	If the Lnk LED is illuminated but not the 100 LED then a 10 Mbps link has been established. If the 100 LED is also illuminated, then a 100 Mbps link has been established.
	no illumination	no Ethernet connection	The 100 and Act LEDs will remain unlit by default.

Product Documentation Online

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

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

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 1-800-795-8004
 - Outside the U.S.A., call 1-727-530-2340

EMI Notices

United States – EMI Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The authority to operate this equipment is conditioned by the requirements that no modifications will be made to the equipment unless the changes or modifications are expressly approved by Paradyne Corporation.

If the equipment includes a ferrite choke or chokes, they must be installed as described in the installation instructions.

Canada – EMI Notice

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.



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