



MIM-2000F

Installation Instructions

Document Number MIM2-A2-GZ42-00

June 2005

Contents

Software and Firmware License Agreement	1
Product Documentation Online	3
Unpacking and Inspecting the Equipment	3
Installing the MIM-2000F	3
Installing and Cabling SFP Transceivers	4
Managing the MIM-2000F	4
LED Indicators	5
Regulatory Notices	5
Warranty, Sales, Service, and Training Information	6

Software and Firmware License Agreement

ONCE YOU HAVE READ THIS LICENSE AGREEMENT AND AGREE TO ITS TERMS, YOU MAY USE THE SOFTWARE AND/OR FIRMWARE INCORPORATED INTO THE PARADYNE PRODUCT. BY USING THE PARADYNE PRODUCT YOU SHOW YOUR ACCEPTANCE OF THE TERMS OF THIS LICENSE AGREEMENT.

IN THE EVENT THAT YOU DO NOT AGREE WITH ANY OF THE TERMS OF THIS LICENSE AGREEMENT, PROMPTLY RETURN THE UNUSED PRODUCT IN ITS ORIGINAL PACKAGING AND YOUR SALES RECEIPT OR INVOICE TO THE LOCATION WHERE YOU OBTAINED THE PARADYNE PRODUCT OR THE LOCATION FROM WHICH IT WAS SHIPPED TO YOU, AS APPLICABLE, AND YOU WILL RECEIVE A REFUND OR CREDIT FOR THE PARADYNE PRODUCT PURCHASED BY YOU.

The terms and conditions of this License Agreement (the "Agreement") will apply to the software and/or firmware (individually or collectively the "Software") incorporated into the Paradyne product (the "Product") purchased by you and any derivatives obtained from the Software, including any copy of either. If you have executed a separate written agreement covering the Software supplied to you under this purchase, such separate written agreement shall govern.

Paradyne Corporation ("Paradyne") grants to you, and you ("Licensee") agree to accept a personal, non-transferable, non-exclusive, right (without the right to sublicense) to use the Software, solely as it is intended and solely as incorporated

in the Product purchased from Paradyne or its authorized distributor or reseller under the following terms and conditions:

1. Ownership: The Software is the sole property of Paradyne and/or its licensors. The Licensee acquires no title, right or interest in the Software other than the license granted under this Agreement.
2. Licensee shall not use the Software in any country other than the country in which the Product was rightfully purchased except upon prior written notice to Paradyne and an agreement in writing to additional terms.
3. The Licensee shall not reverse engineer, decompile or disassemble the Software in whole or in part.
4. The Licensee shall not copy the Software except for a single archival copy.
5. Except for the Product warranty contained in the manual, the Software is provided "AS IS" and in its present state and condition and Paradyne makes no other warranty whatsoever with respect to the Product purchased by you. THIS AGREEMENT EXPRESSLY EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, OR ORAL OR WRITTEN, INCLUDING WITHOUT LIMITATION:
 - a. Any warranty that the Software is error-free, will operate uninterrupted in your operating environment, or is compatible with any equipment or software configurations; and
 - b. ANY AND ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT.

Some states or other jurisdictions do not allow the exclusion of implied warranties on limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from one state or jurisdiction to another.
6. In no event will Paradyne be liable to Licensee for any consequential, incidental, punitive or special damages, including any lost profits or lost savings, loss of business information or business interruption or other pecuniary loss arising out of the use or inability to use the Software, whether based on contract, tort, warranty or other legal or equitable grounds, even if Paradyne has been advised of the possibility of such damages, or for any claim by any third party.
7. The rights granted under this Agreement may not be assigned, sublicensed or otherwise transferred by the Licensee to any third party without the prior written consent of Paradyne.
8. This Agreement and the license granted under this Agreement shall be terminated in the event of breach by the Licensee of any provisions of this Agreement.
9. Upon such termination, the Licensee shall refrain from any further use of the Software and destroy the original and all copies of the Software in the possession of Licensee together with all documentation and related materials.
10. This Agreement shall be governed by the laws of the State of Florida, without regard to its provisions concerning conflicts of laws.

Product Documentation Online

Complete documentation for Paradyne products 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.

Unpacking and Inspecting the Equipment

⚠ HANDLING PRECAUTIONS FOR STATIC-SENSITIVE DEVICES

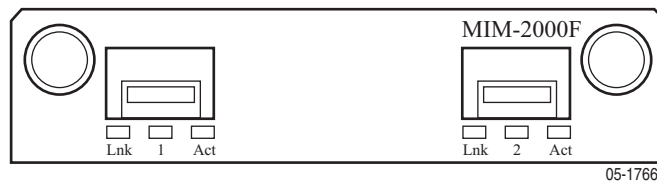


This product is designed to protect sensitive components from damage due to electrostatic discharge (ESD) during normal operation. When performing installation procedures, however, take proper static control precautions to prevent damage to equipment. If you are not sure of the proper static control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

If there is any visible damage, do not attempt to install the MIM-2000F; contact your sales representative.

Installing the MIM-2000F

The MIM-2000F Micro Interface Module provides additional uplink ports for the BSX8000-5 Broadband Services Switch or 4929 DSLAM.



All MIMs are hot-swappable, although removal of a MIM disengages the upstream network connection for the DSLAM.

To install the MIM-2000F:

► Procedure

1. Using a flat-blade screwdriver to loosen the fastening screws, remove the cover plate from the MIM port on the front of your BSX8000 or 4929 DSLAM.

CAUTION: The cover plate should be stored for possible future use. If the MIM is removed from your BSX8000 or DSLAM, it must be replaced with either another MIM or a cover plate. Do not operate a BSX8000 or DSLAM with an open MIM port.

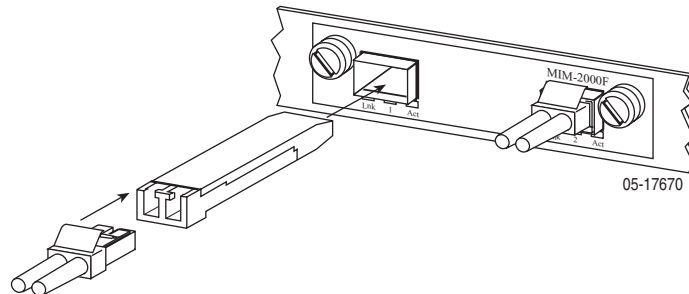
2. Align the MIM-2000F with the module guides inside the MIM port.

3. Slide the MIM-2000F firmly into place. Do not use excessive force.
4. Secure the MIM-2000F by tightening the fastening screws on the MIM faceplate with a flat-blade screwdriver.

Installing and Cabling SFP Transceivers

Both SFP copper and fiber optic transceivers may be installed in the MIM-2000F. The following SFP fiber optic transceivers are available:

- SFP-MMF – GigE SFP Multimode Fiber Optic Transceiver, Short Reach
- SFP-SMF10 – GigE SFP Single Mode Fiber Optic Transceiver, 10Km Reach
- SFP-SMF40 – GigE SFP Single Mode Fiber Optic Transceiver, 40Km Reach
- SFP-SMF80 – GigE SFP Single Mode Fiber Optic Transceiver, 80Km Reach



To install SFP transceivers in the MIM-2000F:

► Procedure

1. Insert an SFP transceiver into an SFP socket on the MIM-2000F.
2. Insert the LC connector of your fiber optic cable into the SFP transceiver.
3. Observing the minimum bend radius for your cable, fasten it in such a way that it will not be kinked or snagged in the course of other cabling. If you do not know the specifications for your cable, maintain a radius of at least ten times the cable diameter.
4. Repeat for all the sockets you intend to use.

Managing the MIM-2000F

The configuration and monitoring of the integrated switch on the MIM-2000F is performed through the management screens of the BSX8000 or 4929 DSLAM that hosts this module. See the *BSX8000-5 Installation Instructions* or *4929 DSLAM Installation Guide* and the *NMS User's Guide*.

LED Indicators

Each port is associated with two LEDs: Lnk (Link) and Act (Active):

Table 1. Front Panel LEDs

LED	State	Indication
Lnk (Link)	Solid green	Connection is established
	No illumination	Connection is not established
Act (Active)	No illumination	No data activity on the circuit
	Flashing amber	Data is flowing through the circuit

Regulatory 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.

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.

EUROPEAN REGULATORY COMPLIANCE

The following regulatory compliance information applies to the MIM-2000F as installed in the 4929 DSLAM or BSX8000-5 Broadband Services Switch:

This Class A product complies with European Norm EN55022.

Warning: In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to correct the situation.

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



MIM2-A2-GZ42-00

Copyright 2005 Paradyne Corporation. Printed in U.S.A.