

#### IMPORTANT SAFETY INSTRUCTIONS

- When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:
- Do not use the product near water. For example, never a bath tub, wash bowl, kitchen sink or laundry tub, or a wet basement or near a swimming pool.
  - Never use a telephone that has a cordless type) during an electric storm. There may be a lightning storm near you even if the telephone is not cordless.
  - Do not use the telephone to report a gas leak in the vicinity of a leak.

#### MITEL SAFETY WARNING

ANY CONNECTION OF THIS SET TO AN OFF-PREMISE APPLICATION, AN OUT-OF-PLANT APPLICATION, ANY OTHER PREMISES OR APPLICATION, OR TO ANY EQUIPMENT OF THE MITEL CORPORATION IS SUBJECT TO CHANGE WITHOUT NOTICE. MITEL CORPORATION IS NOT RESPONSIBLE FOR ERRORS AND/OR OMISSIONS CONTAINED IN THIS INFORMATION.

#### DISCLAIMER

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#### NOTICE TO CANADIAN CUSTOMERS

The digital equipment does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

#### NOTICE TO U.S. CUSTOMERS

This equipment has been tested and found to comply with the limits for a Class B 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 normally operates and does not radiate radio frequency energy and is designed to operate in a residential area. However, if the equipment does cause harmful interference to a residential area, a user who is advised by the equipment's manual that the equipment is 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.

#### NOTICE TO CUSTOMERS IN EU COUNTRIES

The CE mark appears on this product. It indicates that this product is in compliance with the 89/392/EEC EMC Directive, Class B emissions. It also indicates that this product complies with 73/23/EEC Low Voltage Directive.

#### 9132-910-006-NA DRAFT B

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# MITEL Superset Interface Modules Installation Guide

- SUPERSSET 4025, 4125, and 4150 Telephones
- SUPERSSET Interface Module 1(PKM)
- SUPERSSET Interface Module 2 (PKM / Analog)

#### DESCRIPTION

SUPERSSET Interface Modules provide connectivity between SUPERSSET 4025, 4125, and 4150 telephones and other peripherals.

SUPERSSET Interface Module 1 (9132-239-100-XX) allows you to connect your telephone to a SUPERSSET PKM48 Programmable Key Module (up to two PKMs on SX-2000 systems).

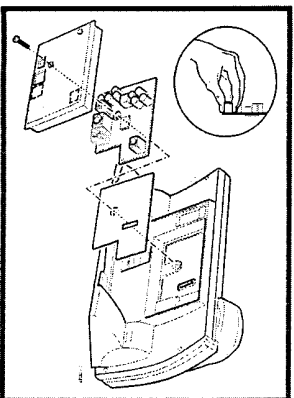
SUPERSSET Interface Module 2 (9132-239-101-XX) allows you to connect your telephone to a SUPERSSET PKM48 Programmable Key Module (up to two PKMs on SX-2000 systems), as well as any number of two-wire analog multiplexers as telephones, fax machines, or modems, with the following restrictions:

- the analog terminal equipment connected to the SUP2 Analog Station Port at all times must not have any additional connections to the regular telephone network (RSN)
- the analog devices are part of a maximum loop length of 50 feet
- the sum of the Ring Equivalence Numbers (REN) of all devices in the loop does not exceed 2.0 REN (exceeding this maximum may cause one or more of the devices to stop functioning)
- devices with a Z type REN are not used with the module.

The module allows simultaneous use of both the 4000 series telephones and the analog equipment.

SUPERSSET Interface Module 1 is supported by the following system software:

- SX-2000 LIGHT LIGHTWARE™ 28 Release 2 (MR2) and later
- SX-4000 MCLL LIGHTWARE™ 17 Release 3 and later software
- SX-4000 MCLL LIGHTWARE™ 17 Release 3 and later software
- SX-2000 MCLL LIGHTWARE™ 17 Release 3 and later software.



**IMPORTANT NOTE:**  
The SUPERSSET PKM48 is the only programmable key module qualified by MITEL for connection to SUPERSSET 4000 series telephones.

#### INSTALLATION INSTRUCTIONS

**CAUTION:** Only personnel qualified by MITEL should install SUPERSSET Interface Modules.

#### TO INSTALL A SUPERSSET INTERFACE MODULE:

**CAUTION:** Handle SUPERSSET Interface Modules by the edges of the printed circuit boards or the jacks. Do not touch components or conductors.

1. Unplug the set from the system.
2. With a Phillips screwdriver, remove the cover from the underside of the telephone. Store the cover and the screw.
3. Place the thin insulating barrier over the telephones' circuitry. Ensure that the hole for the 41-pin connector is aligned with the female 41-pin connector. If a barrier was not included with the module, proceed to Step 4.
4. Holding the module by the PKM jack (the jack nearest the power adapter jack), set the module squarely into the exposed bay with the jack(s) nearest to the front of the set (the hinged part of the stand). Ensure that the module's pins are aligned with the telephone's female 41-pin connector.
5. In the plastic cover shipped with the module, use your thumb to snap out the plastic PKM jack punchout (the punchout nearest the small square power adapter hole).
6. Push the power adapter Module 2 only, use your thumb to also snap out the plastic ONTS jack punchout.
7. Place the cover shipped with the module over the module and apply equal pressure to all sides of the cover until the module clicks into place.
8. Reconnect the set to the system.
9. Reconnect the set to the system.
10. Reconnect the set to the system.
11. For SUPERSSET 4025 and 4125 telephones only, plug the improved SUPERSSET 4150 interface module power jack. For SUPERSSET 4150 telephones only, the power adapter is powered by the power adapter plugged into the telephone's wall. Never plug a power supply into a SUPERSSET Interface Module installed in a SUPERSSET 4150 telephone.
12. Plug the power adapter into a power source.

#### TO REMOVE A SUPERSSET INTERFACE MODULE:

1. Unplug the telephone from the system and all power adapters and cables from the interface module jacks.
2. Unplug the power adapter from its power source.
3. With a Phillips screwdriver, remove the module cover from the underside of the telephone. Store the cover and screw.
4. Grasp the interface module by the PKM jack and gently wiggle the module as you pull it from the set.
5. Release the telephone's original cover and fasten it with the screw removed in Step 2.

#### IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- Do not use the product near water, for example, near a bath tub, wash bowl, kitchen sink or similar liquid containers.
- Avoid using a telephone where there is a condition (spoil) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use the telephone to report a gas leak in the vicinity of a leak.
- Use only cables supplied with the SUPERSSET Programmable Key Module in the installation of this device.

#### MITEL Safety Warning

ANY CONNECTION OF THIS SET TO AN OFF-PREMISE APPLICATION, ANY OUT-OF-PLANT APPLICATION, ANY OTHER EXPOSED PLANT APPLICATION, OR TO ANY EQUIPMENT OTHER THAN THE MITEL SUPERSSET PROGRAMMABLE KEY MODULE MAY RESULT IN A SAFETY HAZARD. RADIATION DETECTIVE OPERATION, AND/OR LIGHTWAVE MODE.

#### DISCLAIMER

DUE TO THE DYNAMIC NATURE OF THE PRODUCT DESIGN, THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. MITEL CORPORATION IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY APPEAR IN THIS DOCUMENT. OMISSIONS CONTAINED IN THIS INFORMATION.

#### NOTICE TO CANADIAN CUSTOMERS

This digital system does not include the Class B parts for radio noise emissions from digital systems. The digital system requires safety equipment to reduce digital system radio emissions to meet the Industry Canada.

#### NOTICE TO U.S. CUSTOMERS

This system is not intended to comply with Part 68 of the FCC. It is not intended to be used in a residential environment. The equipment is intended for use in a commercial environment. The equipment is not intended to be used in a residential environment. The equipment is not intended to be used in a residential environment. The equipment is not intended to be used in a residential environment.

#### NOTICE TO CUSTOMERS IN EU COUNTRIES

The CE mark on the product indicates that the product is in compliance with the SUPERSSET EMC directives. The CE mark is a statement of conformity with the EMC directives of the SUPERSSET EMC Directive.

#### 1932-910-004-NA DRAFT B

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# M I T E L Superset PKM48 Programmable Key Module

## Installation Guide (for SUPERSSET 4025, 4125, and 4150 telephones)

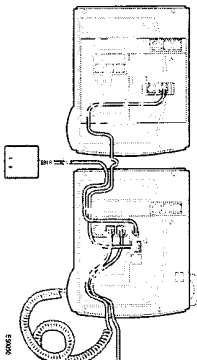
### DESCRIPTION

The SUPERSSET PKM48 Programmable Key Module is a digital device providing 48 additional personal keys for SUPERSSET 4025, 4125, and 4150 telephones. Each personal key may be programmed as a feature key, a Direct Station Select (DSS) key, a speedcall key, or for other uses, and each has a five status indicator that behaves the same as the indicators on SUPERSSET 4000 series telephones (see your telephone's user guide). The SUPERSSET PKM48 is connected to a SUPERSSET 4000 series telephone using the modular cable included with the PKM, and a SUPERSSET interface module installed in the slot. The module supplies power to the PKM.

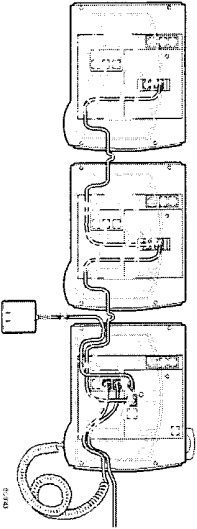
### IMPORTANT NOTE:

The SUPERSSET PKM48 programmable key module is the only PKM available for MITEL for connection to SUPERSSET 4000 series telephones.

### Figure 1 - SX-2000 / SX-200



### Figure 2 - SX-200



### INSTALLATION INSTRUCTIONS

- To attach a PKM to a telephone:
1. Ensure that the system has been programmed to recognize your PKM, and that a MITEL-qualified technician has installed a SUPERSSET Interface Module in your SUPERSSET 4025, 4125, or 4150 telephone.
  2. Ensure that the telephone is connected to the system, and that the appropriate AC adapter is powered and plugged into the SUPERSSET Interface Module (SUPERSSET 4025 telephones) or the power jack on the underside of the set itself (SUPERSSET 4125 and 4150 telephones).  
**NOTE:** Never plug a power supply into a SUPERSSET Interface Module installed in SUPERSSET 4125 or 4150 telephones.
  3. Plug one end of the modular cable into the jack located on the underside of the PKM.
  4. Plug the other end of the modular cable into the jack on the telephone's access cable and lock it underneath the telephone strand.  
**NOTE:** Continually flashing LEDs indicate incorrect installation or programming.
  5. Press the cables as shown in the illustration in this guide. Bundle the cables and lock it underneath the telephone strand.
  6. Program the keys as described in your telephone user guide. Your System Administrator may have to program some buttons.

### NOTE:

The SUPERSSET PKM48 Programmable Key Module will not function until it is identified in Customer Data Entry programming by your System Administrator.

### TO ATTACH A SECOND PKM TO A TELEPHONE (SX-200 SYSTEMS ONLY):

1. Ensure that the telephone and first PKM are configured and powered as described in Steps 1 to 6, above.
2. Plug one end of the modular cable into the jack on the underside of the first PKM (see Figure 2).
3. Plug the other end of the modular cable into the jack on the underside of the second PKM. The LEDs will temporarily flash and then go out. Continually flashing LEDs indicate incorrect installation or programming.
4. Route cables and program the second PKM as described in Steps 5 and 6, above.