

Lucent Technologies
Bell Labs Innovations

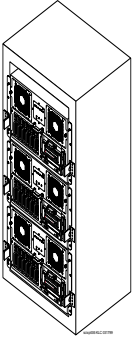


Assembling the Rack-Mounted MAP/100P

Assembling the Rack-Mounted MAP/100P

Click the graphic for a larger view.

Sample Rack-Mounted MAP/100P



The following sections and graphics contain the information needed to install the MAP/100P into a rack, install ferrites, locate key components, and provide proper clearance for the cooling system.

The [Sample Rack-Mounted MAP/100P](#) graphic shows a sample of a 19-inch by 30-inch (48.3-centimeter by 76.2-centimeter) commercial cabinet that houses three rack-mounted MAP/100P units. Each MAP/100P is shown with the front bezel removed.

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Installing the MAP/100P into a Rack

**CAUTION:**

To prevent accidental tipping, verify that the commercial cabinet is secured to the floor before mounting the MAP/100P.

You can mount the MAP/100P into a commercial cabinet. Before beginning, verify the following:

- At least two installers are available to mount the MAP/100P into the rack.
- The cabinet equipment mounting rails are between 28 and 30 inches (71.2 and 76.2 centimeters) deep.
- The cabinet height will accommodate the number of units that need to be mounted.
- The rack-mount hardware provided with the MAP/100P is on-site, including the items listed in the table below:




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Assembling the Rack-Mounted MAP/100P

Table: Contents of the MAP/100P Rack-Mount Hardware

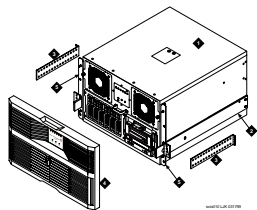
Part	Quantity	Factory Installed	Technician Installed
Extension bracket	2	—	X
Right-side unit support guide	1	X	—
Left-side unit support guide	1	X	—
Front panel handle	1	X	—
Rack bezel	1	X	—
Miscellaneous screws, lock washers, clip nuts, and mounting hardware	—	—	X

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Assembling the Rack-Mounted MAP/100P

Click the graphic for a larger view.

Mounting the MAP/100P in a Rack



To install the MAP/100P into a rack:

1. Ensure that you have the required tools:
 - Phillips set, large
 - Flatblade screwdriver
 - Mounting screws and captive clip nuts provided with the commercial cabinet
2. Remove the front bezel.
3. Remove the cabinet mounting bracket from the left and right side of the unit. The mounting bracket is held in place with eight screws.
4. Reuse two screws to attach the extension bracket to the unit at the cabinet's depth dimension.

NOTE:
Adding the extension bracket provides the necessary depth required for the MAP/100P to fit into the cabinet.
5. Fully extend the cabinet slides to the locked-out position.
6. With another installer supporting the unit, align the front mounting holes of the slide with those on the cabinet.
7. Use two screws to attach the MAP/100P cabinet-mounting guide ends to the cabinet.

▶ Continue, press PAGE DOWN.

Assembling the Rack-Mounted MAP/100P

8. Repeat Step 3 through Step 7 for the other side.
9. Unlock the cabinet slide and check that the unit moves smoothly in and out of the cabinet.
10. Push the unit completely into the rack.
11. Use two screws and captive clip nuts on the front of each corner to secure the unit.
12. Install the front bezel:
 - a. Open the bezel door.
 - b. Snap the front bezel spring clips over the four ball studs located at each corner of the front panel.
 - c. Close the bezel door and lock.



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Installing Ferrites on the Rack-Mounted MAP/100P

NOTE:

You must install all required ferrites before you begin installing your system.

See [Installing a Ferrite](#) for general information about installing ferrites. See [Ferrite Configuration](#) for ferrite information specific to the MAP/100P.

Once you have installed all required ferrites, begin assembling your system.

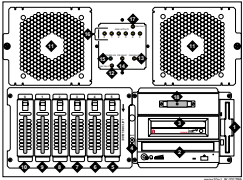


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Key Components on the Front of the Rack-Mounted MAP/100P

**Front View of the
Rack-Mounted MAP/100P
with Front Bezel
Removed**

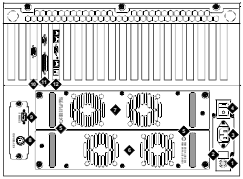
Click the graphic for a larger view and for a description of each component on the front of the rack-mounted MAP/100P.



Key Components on the Back of the Rack-Mounted MAP/100P

**Back View of the
Rack-Mounted MAP/100P**

Click the graphic for a larger view and for a description of each component on the back of the rack-mounted MAP/100P.



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Cooling System for the Rack-Mounted MAP/100P

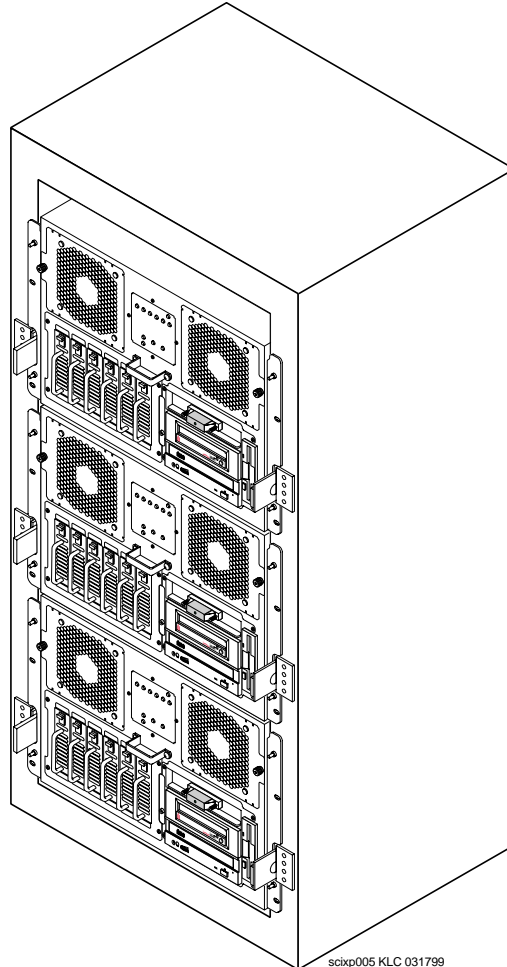
The cooling system for the MAP/100P includes two fans. One fan is located to the right of the circuit card cage area. The other cooling fan is located to the left of the circuit card cage area.

The fans maintain air flow in the unit to prevent components from overheating, which can cause a component to malfunction. To prevent overheating, you must also maintain adequate clearance on all sides of the unit so that air can circulate.



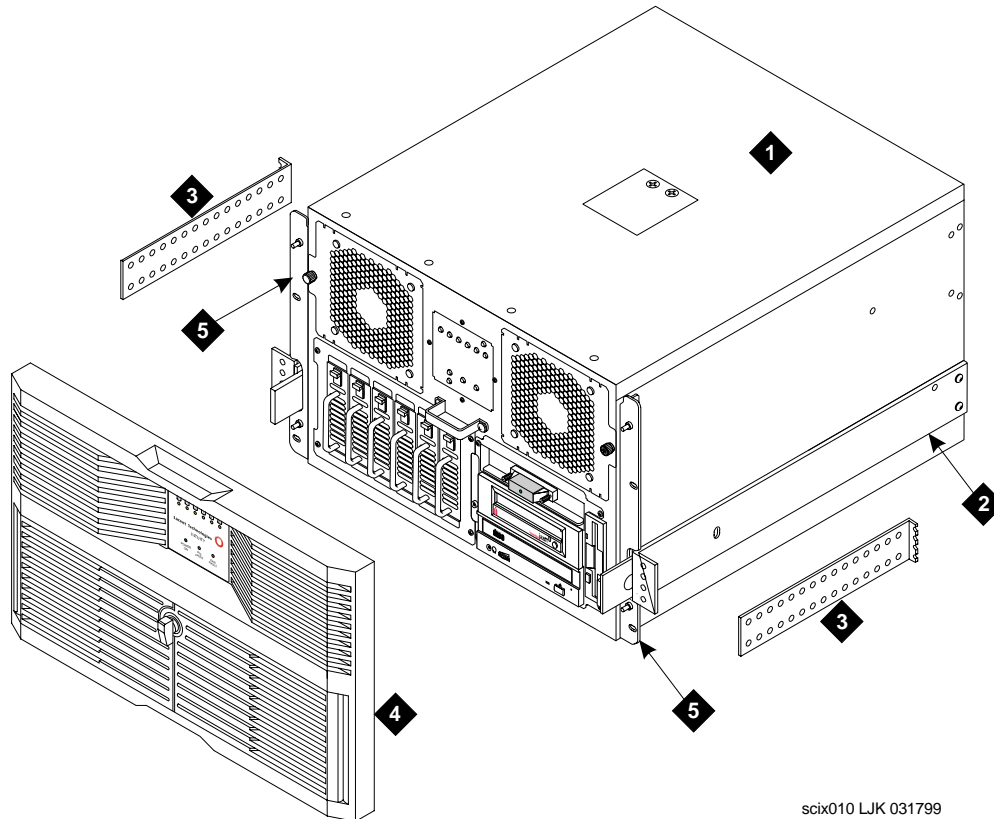
Procedure completed.

**Figure: Sample
Rack-Mounted
MAP/100P**



Mounting the MAP/100P in a Rack

Figure:
Mounting the
MAP/100P in a
Rack

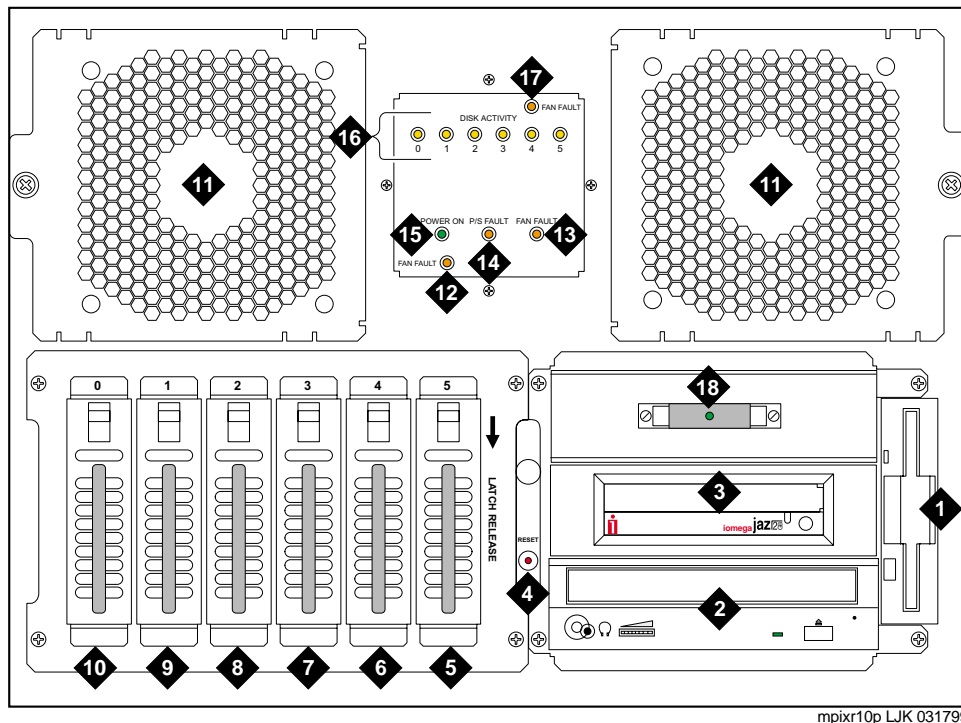


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- 1 MAP/100P
- 2 Cabinet-mounting bracket
- 3 Extension bracket support guide
- 4 Front bezel with filters
- 5 Corner unit retaining bracket

Front View of a Rack-Mounted MAP/100P with Front Bezel Removed

Figure: Front View of a Rack-Mounted MAP/100P with Front Bezel Removed



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NOTE:

See the table below for a description of each component.

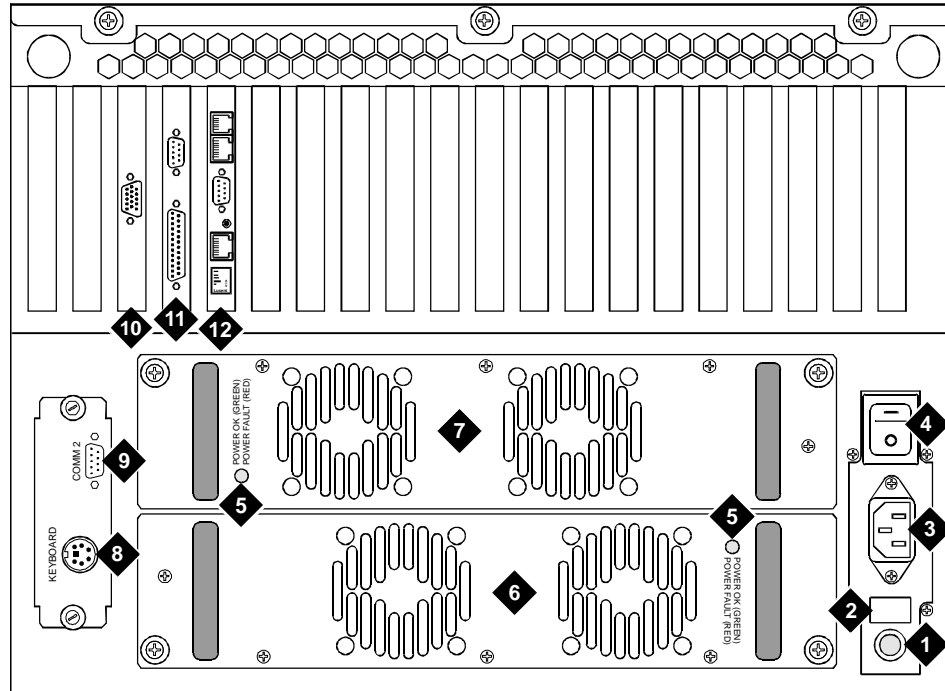
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Front View of a Rack-Mounted MAP/100P with Front Bezel Removed

Component		Description	Component		Description
1.	Diskette drive	3.5-inch, 1.44-MB high-density; system configuration; diagnostic testing	10.	Empty hard disk drive carriage	–
2.	CD-ROM drive	Random access to the operating system, application software, and speech data	11.	Circuit card cage fan assembly	Cooling system component
3.	Cartridge drive	Backup and restore; loading the system	12.	Fan fault LED	LED; lights red when the left fan fails
4.	Reset switch	Push button; resets the MAP/100P	13.	Card cage fan fault LED	LED; lights red when the card cage fan fails
5.	Hard disk drive 0	4.5-GB SCSI	14.	Power supply fault LED	LED; lights red when the power supply fan fails or the power supply is removed
6.	Hard disk drive 1	4.5-GB SCSI	15.	Power-on LED	LED; lights green when the power is on
7.	Hard disk drive 2	4.5-GB SCSI	16.	Disk activity indicators (per SCSI ID)	LED; intermittently lights amber when the associated disk is accessed and active
8.	Hard disk drive 3	4.5-GB SCSI	17.	Fan fault LED	LED; lights red when the right fan fails
9.	Hard disk drive 4	4.5-GB SCSI	18.	SCSI external active terminator	External active terminator connected on the end of the CPU SCSI bus cable with an LED indicator for power available

Back View of the Rack-Mounted MAP/100P

Figure: Back View of the Rack-Mounted MAP/100P



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NOTE:

See the table below for a description of each component.

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Back View of the Rack-Mounted MAP/100P

Component		Description
1.	Fuse, line	AC line. 250V, 12 amp for U.S. 250V, 6.3 amp for international
2.	Fuse rating label	Denotes caution and fuse rating/type reference.
3.	AC power inlet receptacle	3-prong, 110V or 220V Connects the MAP/100P to the power source through a power cord.
4.	ON/OFF power switch	Rocker switch Turns power on or off to the MAP/100P.
5.	Power supply LED	LED, power supply status Lights green when OK; lights red when faulty.
6.	Power supply 1	110/220V autosensing, always required Provides +5, -5, +12, and -12 volts requirements.
7.	Power supply 2	110/220V autosensing, always required Provides +5, -5, +12, and -12 volts requirements.
8.	Keyboard connector	5-pin female circular DIN to the MAP/100P
9.	COM2 Asynchronous port	9-pin male D subminiature Communicates with external devices.
10.	Video circuit card	The connector on the circuit card provides the interface between a monitor and the MAP/100P through a cable.
11.	CPU (slot 17)	P5 200 MHz CPU with COM1 and parallel port connectors
12.	Remote maintenance circuit card (ISA slot 16)	Provides access for remote maintenance.