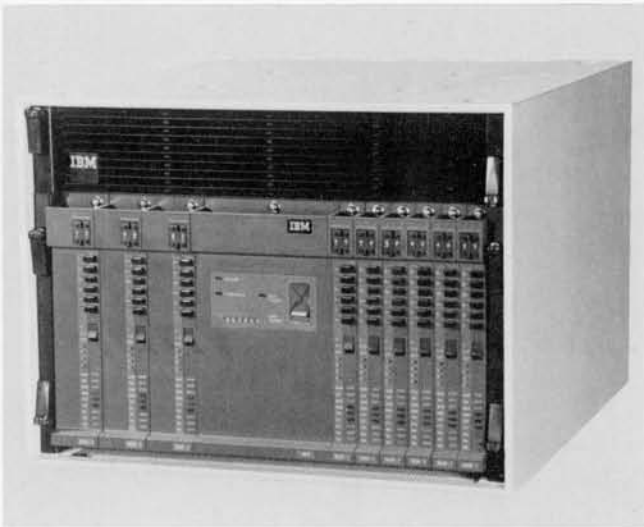
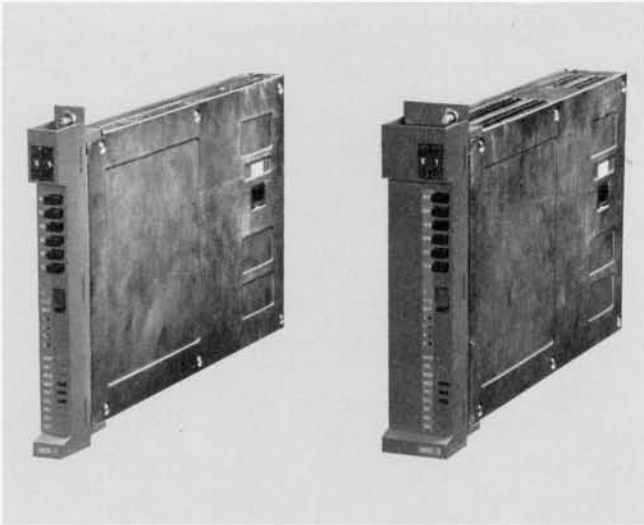


IBM
PC
XT
AT
PS/2
Modems

386

Modems



PRODUCT DESCRIPTION

The IBM 3868 modem pack is a rack mounting version of the 3863, 3864, 3865 standalone modems.

The 3866 rack enclosure houses 6 to 12, 3868 modem packs according to their model.

A fan unit provides cooling for power and modem packs.

A power unit provides power for all 3868 housed in a rack enclosure.

Optional Features

None

Maintainability/Serviceability Features

- All maintenance facilities available on 3863, 3864 and 3865 are available on 3868's.
- LPDA: The Link Problem Determination Aid (LPDA) function is executed by the modem with the Network Problem Determination Application (NPDA) in the host. Through ACF/NCP in the communication controller it provides status and db value of the receive level of any modem in the link. The LPDA commands help the network operator to isolate network problems and to determine the most probable cause of failure.
- Self-test: The self test invokes resident microdiagnostics, checks the modem logic cards for proper operation, and performs a wrap test (internal loop). If an error occurs the test stops with the 'modem check' lamp on, FRU indicators are also set according to the failing FRU.
- Loop Transmit: This test allows the operator or CE to wrap the remote modem without remote operator assistance.
- Local loopback and Remote loopback: These tests are also available for deeper investigation.
- Lamp test switch.
- Three position speed control switch: (full data rate, half data rate, data rate defined by the DTE).
- CPAR (Customer Problem Analysis and Resolution) guide used in conjunction with lamps and tests allows the customer to isolate the failing element.
- MAPs (Maintenance Analysis Procedure) are used by the CE in conjunction with lamp and FRU indicators to determine the failing FRU.

3868 Modem Packs

These modems are designed to operate on non switched 4 wire lines point to point or multipoint. For the four models the operator panel is identical.

- 3868 model 1: 2400 bps pt to pt or multipoint (compatible with 3863-1)
- 3868 model 2: 4800 bps pt to pt or multipoint (compatible with 3864-1)
- 3868 model 3: 9600 bps pt to pt (compatible with 3865-1)
- 3868 model 4: 9600 bps multipoint (compatible with 3865-2)

3866 Rack Enclosure

- One enclosure may house from 6 double -width modem packs (3868-2, 3, 4) to 12 single -width modem packs (3868-1) and provides power distribution to modem packs.
- 3866 model 1: Enclosure to be installed in standard 19 inch rack cabinet. Such cabinet being a commercial unit will not be provided by IBM.
- 3866 model 2: Complete IBM unit desk top with external housing. Rack enclosure is factory assembled prior to customer shipment.

Both for 3866 model 1 and model 2, fan unit and power unit must be separately ordered and assembled by the customer (CSU).

Fan Unit (special feature of 3866)

A fan unit provides cooling for power and modem packs. It is installed above the 3866 and it is required for up to two 3866-1. It takes its power source from the Power supply unit.

Power Supply Unit (special feature of 3866)

A power supply unit in each enclosure is required to provide power for all modems via the 3866 voltage distribution board.

Installation

All these equipments have been designed for Customer Set Up.

Technology

- LSI (Large Scale Integration)
- FET (Field Effect Transistor)
- TTL (Transistor-Transistor Logic)
- Power Supply: Switched mode power supply

Standard Features

Indicators

- Data quality (good)
- Data quality (poor)
- Test mode
- Data carrier detect
- Operate
- Modem check
- RTS (request to send)
- TD (transmit data)
- RD (receive data)
- FRU indicators

MODEM SETUP SWITCHES

- Located on the side of the modem pack.
- Allow the customer to set up or relocate modems without CE involvement.

MODEM ADDRESS SWITCHES

- Used only in multipoint configuration.

OTHER

- Extended diagnostic feature (TAC feature) which signals loss of power on the remote modem. This feature also allows the modem self test to be started in the remote modem by a command issued from the local business machine. This feature is standard and must be installed in the remote modem.
- Streaming detect and restore
- Automatic/Adaptive Equalization
- Automatic remote half speed
- External (DTE) clocking
- Interconnector: Connects the modem pack to the power supply and the external lines (DTE and telephone) provided with each modem pack.

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