

# 2076



# The Memorex 2076 Model 4 Remote Cluster Controller

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## Flexibility by design

Not everyone takes flexibility as seriously as Memorex.

Flexibility.

Design simplicity.

The very standards by which the Memorex 2076® Remote Cluster Controller was engineered — and is measured.

For flexibility, Memorex engineers began by isolating the controller function from the CRT. The Memorex 2076 can be positioned alongside the display station or separately, so that one work station does not need to be designated as the “master” station with its tangle of coaxial cables.

For design simplicity, we designed the controller to measure only 6.5 inches high, 14.5 inches wide, and 26 inches deep — and to weigh only 30 pounds, so that it can fit within any number of locations and can be relocated just as easily.

We also gave serious thought to maintenance — for whenever a controller and display station have been integrated into one unit, the entire cluster can be brought down by a problem arising in the display. Since the 2076 has been designed as a standalone unit, the attached display stations can be serviced separately from the controller, without affecting the rest of the cluster.

The trim, streamlined appearance of the 2076 has been enhanced by the layout of the control panel mounted on the face of the controller. A convenient membrane switch panel, controls and LED indicators provide a means of initiating and observing the results of the unit's built-in diagnostics. The membrane panel can be deactivated by simply setting a slider switch located beneath the control subpanel keylock. This prevents any unintentional initiation of diagnostics.

Designed to be functionally interchangeable with the controller portion of the IBM 3276 Models 1, 2, 3, and 4, the Memorex 2076 Model 4 will attach up to eight Category A devices which may be display stations, printers or a mix of display stations and printers; operating with the IBM System/360, System/370, 303X and 43XX.

The Memorex 2076 attaches to a Communications Control Unit; either the Memorex 1270, 1380, or the IBM 3705, 270X, or 370X through external synchronous modems. Communications facilities can be full or half duplex, switched or private lines for BSC protocol at speeds up to 9600 bits/sec.

## Highlights

### Built-in benefits

**The Memorex 2076 Model 4 supports four models** of Memorex's 2078 or IBM's 3278 Display Station, eliminating requirements to upgrade the controller when larger screen capacities are needed.

**Three types of diagnostic capabilities** have been designed to furnish the customer with direct access to accurate, up-to-the-minute information necessary to install and maintain the system.

**Power on** — This routine, designed to check internal functions automatically, runs for approximately 30 seconds whenever the 2076 is powered on. The controller will not go on-line until this program has cycled successfully.

**Off line** — A diagnostic program designed to be used by Memorex Customer Engineers. One of these routines provides the signal necessary to set up the transmit levels of the communications facility.

**On line** — This routine verifies the link between the controller and the attached device — permitting the examination of a single device, while other devices in the cluster remain on-line to the host.

**Device adapters** may be added to allow the Memorex 2076 to support up to eight Category A devices in BSC protocol using EBCDIC transmission code. The standard 2076 supports 2 devices.

**A modem cable** is supplied with the unit and is available in lengths from 10 to 40 feet.

**The customer can install or relocate** the 2076 very quickly since the unit is compact and lightweight.

**A business machine clock** enables the 2076 to provide clocking normally supplied by bisynchronous modems. This allows the user to utilize less expensive asynchronous modems. Clocking also must be provided by the communications control unit (front end processor).

## Optional Features

### Designed to meet your requirements

**Control subpanel keylock** restricts access to the unit address switches and transmit level switches to protect your specific environment.

**Device adapters** allow two additional devices to be attached to the 2076. The unit has been designed to handle up to three device adapters.



# 2076 Model 4 Remote Cluster Controller Specifications

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## Device Control

Up to eight devices of any combination of display stations and printers:

Memorex 2078 Display Station Models 1, 2, 3 and 4;  
Memorex 2087 Matrix Printer;  
IBM 3278 Display Station Models 1, 2, 3 and 4;  
IBM 3287 Matrix Printer Models 1 and 2 (with Feature 8331);  
IBM 3289 Line Printer Models 1 and 2;  
IBM 3262 Line Printer Model 13.

Note: All devices that connect to this controller use IBM Category A interfaces.

## Cabling

Device — RG62 A/U Coax, maximum length 1500 m (4290 ft)

Modem — EIA RS-232C, 6.5 m (20 ft) standard, other lengths available up to 12 m (40 ft).

AC Power — Three wire, 3 m (10 ft), nonlocking plug (NEMA 5-15) standard. 1.8 m (6 ft) and 4.5 m (15 ft), locking plug (NEMA L5-15) available.

## Physical Dimensions

Depth: 66 cm (26.0 in.)

Width: 37 cm (14.5 in.)

Height: 17 cm (6.5 in.)

## Power

117 VAC, 50/60 Hz, Single Phase. 14 kVA

## Weight

13.5 kg (30 lb)

## Operating Environment

### Ambient Temperature

10° to 43°C (50° to 110°F)

### Ambient Relative Humidity

10% to 90%

### Heat Dissipation

120 Kcal/h (477 BTU/h)

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