2074

MEMOREX 2074
REMOTE CLUSTER CONTROLLER

The Memorex® 2074 SNA/SDLC Cluster Controller

The SNA/SDLC Solution

There are distinct advantages in selecting Memorex as a single source for 3270 compatible terminal products.

Memorex pioneered the art and science of user friendly design, economical operations, and functional flexibility. We live up to our earned reputation as a high quality, solutions-oriented vendor.

And now, Memorex offers SNA/SDLC capabilities with the **2074 Cluster Controller.**

The Memorex cluster, completely SNA/SDLC compatible, includes the 2074 Controller and your choice of the 2078 Display Station, the 2079 Color Display Station, and the 2087 Matrix Printer.

And there's another advantage in selecting Memorex. **Our products are IBM plug compatible:** the 2074 is functionally equivalent to models of the 3274. Most IBM 3270 Category A terminal devices attach to our controller. So you can protect in-place investments in applications programs, existing hardware and user training while upgrading to Memorex.

The 2074 is a perfect example of our dedication to ease of operation and user friendliness.

To control the input/output operations of up to 32 display stations and printers, you need do little more than connect the coax cables.

Customization to your unique configuration is so simple, you can do it yourself in minutes. Changes are made just as easily.

Like other Memorex communications devices, the 2074 will communicate with an IBM System 370, or 303X, 308X, and 4300 processors.

It is fully compatible with data links controlled by IBM 3704, 3705, 3725 and compatible communications controllers, and with the Integrated Communications Adapter on the 4300.

A Perfect Fit

It's easy to customize. Memorex takes the mystery out of customizing your controller to fit your unique configuration. You can do it yourself without the assistance of a systems engineer.

You need only complete Memorex-provided configuration and printer authorization matrix worksheets. Then, key-in the information from those sheets via a display station attached to the 2074.

To keep it really simple, you also are prompted in English by a series of menus, displayed on the screen right along with the appropriate IBM 3274 sequence codes.

You will be asked to define each printer, by class and print mode, and to select the character set which all attached terminals will utilize.

The unique configuration, including the necessary codes to accomplish the functions, is written on a single diskette.

This same diskette is pre-programmed by Memorex to perform all other controller functions as well.

Thus, Memorex has eliminated the need to insert different diskettes for different operations.

Self-Diagnostics

The 2074 is designed to help eliminate guesswork. Extensive diagnostics capabilities help you identify trouble situations, so you can take immediate action.

Power-on diagnostics run automatically at power-on or at manual reset. They check internal functions and display failure indicators on the front panel of the controller. The 2074 will not go online until these diagnostics have cycled successfully.

Problem determination aids identify problems and recovery routines. These routines operate with VTAM and TCAM to help determine whether a problem is caused by a cluster unit, a system unit, operator error or function outside the 2074.

Error messages are displayed at the terminal and/or an error condition code is indicated on the 2074 control panel.

Memorex Common Architecture

The internal design of the 2074 is separated into independent hardware and software modules.

The modules communicate and interact with each other via a high speed, parallel multibus.

The 2074 also uses a combination of multiple microprocessors and bit-slice technology, providing it with high internal processing speeds.

The 2074's modular design, known as the **Memorex Common Architecture,** or **MECA**, allows Memorex greater flexibility to enhance and develop future products that will quickly and efficiently address our customers' changing needs.

MECA allows future growth and upward compatibility, using the same hardware without major changes.

State-of-the-Art Design

Because sophistication demands both form and function, the 2074 is as sleek on the outside as it is on the inside.

Today, data processing equipment has come out of the closets and up from the computer room floors to function as integral elements of normal business environments.

Aware of this from the beginning, Memorex has consistently provided products known to attractively complement any decor with handsomely contoured lines and striking, yet powerfully functional control panels.

The 2074 is no exception. With its practical table-top size and flat membrane-sensitive control panel, the 2074 fits in every business environment as if it was designed to order.

2074 SNA/SDLC Cluster Controller Specifications

Device Control

Up to thirty-two devices of the following types may be attached:

Memorex 2078 Display Station Models 1, 2, 3, 4 and 5

Memorex 2079 Color Display Station Model S2A, Models 2X and 3X with four color and no special attributes

Memorex 2087 Matrix Printer, Models 2 and 21

IBM 3268 Matrix Printer, Model 2

IBM 3262 Line Printer, Models 3 and 13

IBM 3278 Display Station, Models 1, 2, 3, 4 and 5

IBM 3287 Matrix Printer, Models 1 and 2 (with Feature 8331)

IBM 3289 Line Printer, Models 1 and 2

IBM 3178 Display Station, Models C1, C2, C3 and CX

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

Cabling

Device:
RG62A/U   Single coaxial, 93 Ohm, maximum length 1,500 m (4,920 ft).

Modem:
EIA   RS232C with internal clocking, cable lengths available in 10, 20, 30 and 40 ft lengths.

AC Power:
Standard: 117 VAC Non-locking plug (NEMA 5-15), 15 ft cord.

Available: 117 VAC Locking plug (NEMA L5-15), 15 ft cord.

230V, 10 ft cord, for Australian, Danish, European Swiss and U.K. requirements.

Configuration Support

SNA/SDLC Category A Terminals

Physical Characteristics

Depth: 20.0 in. (51 cm)
Width: 30.0 in. (76 cm)
Height: 11.0 in. (28 cm)
Weight: 82 lb (37.3 kg)

Power

U.S.: 117 VAC, 60 Hz, Single Phase
International: 230 VAC, 50 Hz, Single Phase

Operating Environment

Ambient Temperature
Operating: 50 to 95°F (10 to 35°C)
Non-operating: 50 to 120°F (10 to 49°C)

Ambient Relative Humidity
Operating: 20% to 80%
Non-operating: 10% to 90%

Temperature Variation
Operating: 10°F/hr (5.6°C/hr)
Non-operating: No condensation

Heat Dissipation
1570 Btu/hr (395 Kcal/hr)

Power Consumption
0.46 kVA

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