

OMRON®



8025 CRT TERMINAL

MICRO-PROCESSOR CONTROLLED
ROM PROGRAMMED
FIELD EXPANDABLE MEMORY

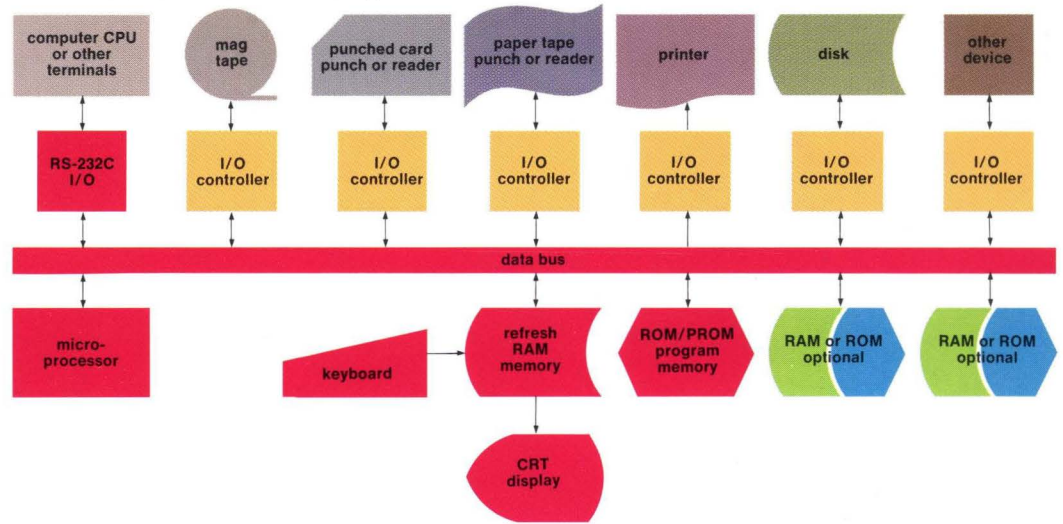
The Omron 8025 series CRT offers the widest choice of memory and peripherals. You select only the functions and peripherals you require.

The basic 8025 system is shown in red.



The Terminal with "Variable I.Q."

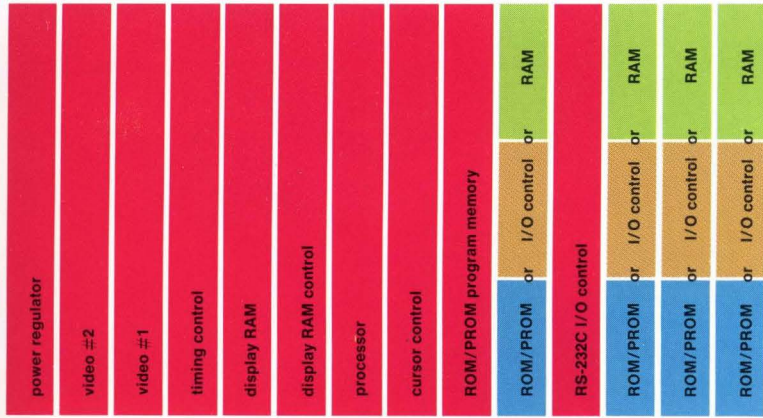
Model 8025 CRT terminal block diagram



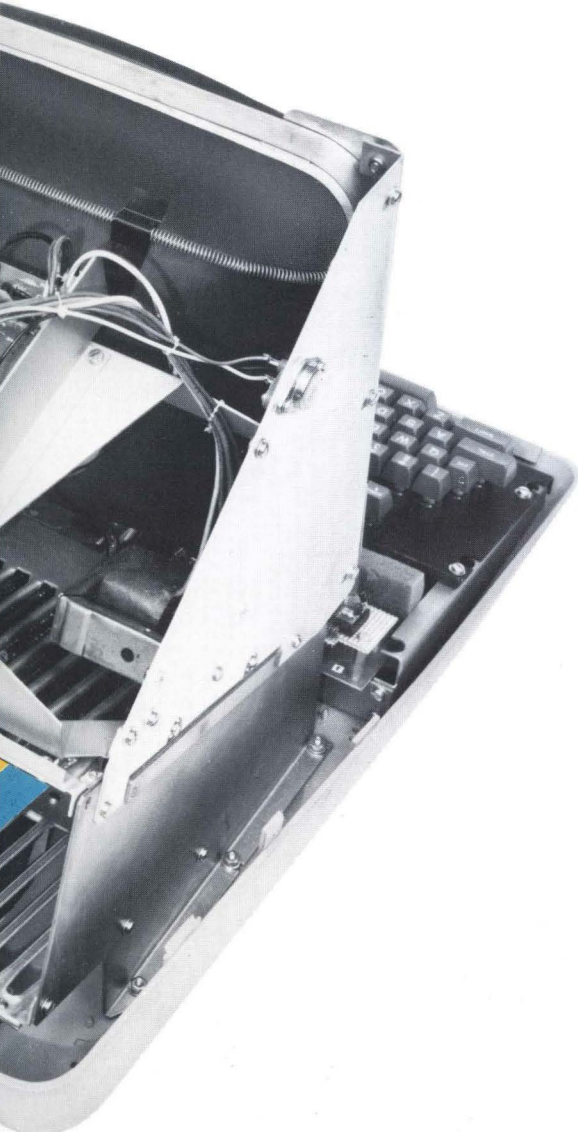
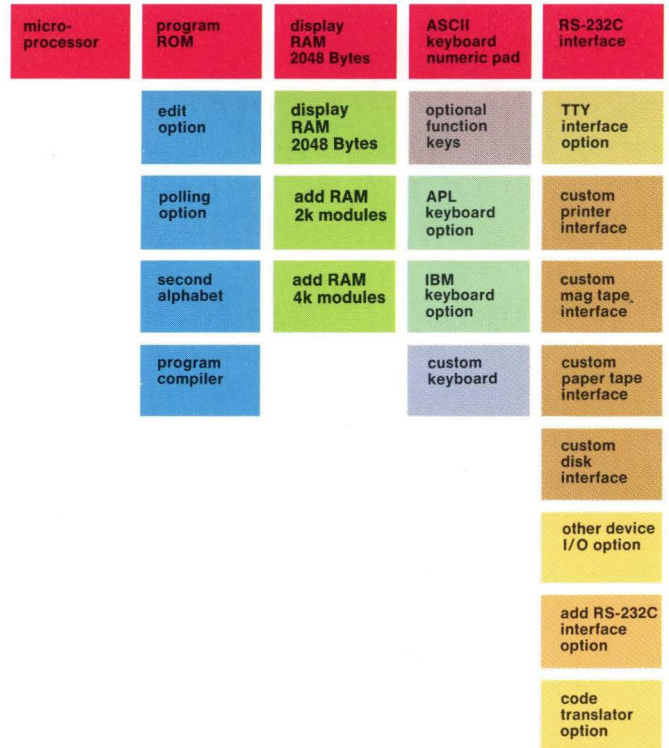
**This just may be history's
greatest inside job:
OMRON introduces a
programmable CRT with
variable I.Q.**



Model 8025 CRT terminal card cage



Model 8025 CRT terminal basic system



“Variable I.Q.” is a term we use to describe the industry’s most versatile micro-processor based CRT system.

The Omron 8025 CRT is a new generation concept which fills the widening gap between the CRT specifically designed to replace the TTY and the mini-computer-based intelligent terminal. How the 8025 design accomplishes this goal can be realized by a study of the many configurations and options illustrated in the panels above. Stated simply, the Omron 8025 is capable of a broad range of tasks from simple TTY replacement to dedicated, stand alone systems.

The key feature of the 8025 CRT is its simplicity of operation. Anyone can process data through the system. It’s a little like the modern desk top calculator. The user doesn’t have to know how to add, subtract, multiply or divide, he merely has to key in the information and punch the correct function keys. Operating the 8025 CRT can be as simple as that.

Dominant system features include:

- Databus organization
- ROM programmed
- Field expandable memory
- Custom I/O interfaces
- 1920 character display on a 15" diagonal non-glare screen
- On line/off line operations
- Stand alone or optional cluster operation
- Switch selectable transmission rates
- Selectable communications formats
- Optional task-oriented function keys

8025A CRT Terminal (basic unit)



The Terminal
with "Variable I.Q."

Specifications

CRT Display

Screen Size

8" x 10", 15" diagonal

Phosphor

P4 (white)

Refresh Rate

60 Hz

Display Format

Scan Method

Modified Raster, 60 frames per second

Symbol Formation

7 x 7 Dot Matrix, Upper Case & Numerics
7 x 9 Dot Matrix, Lower Case

Character Size

.125"H x .0875"W

Page Format

80 Characters per line, 24 lines per display
(1920 characters)

Character Set

128 Character ASCII

Field Identification

Half Intensity
Full Intensity
Blink at Full Intensity
Reverse Field Blink at Full Intensity
Reverse Field at Half Intensity
Reverse Field at Full Intensity
Underscore (underline)
Blank

Keyboard

I/O Code

ASCII (standard)

Arrangement

ASCII (standard)

Numeric Pad

12 Key including decimal point and comma

Cursor Type

Non-destructive blinking underscore normal
Non-destructive block with protected fields

Cursor Control

Up, Down, Left, Right, Home, Return left to
next line on New Line Command

Special Features

N Key Rollover
Acoustic Feedback (adjustable)
Bell (programmable)
Automatic Repeat

Communications

Asynchronous

0 to 2400 Baud, Full or Half Duplex
Character, Block or Page Transmission
10 or 11 bit character

Synchronous

110 to 9600 Baud, Full or Half Duplex

Parity

Odd, Even or No Parity

Interface

EIA RS 232C (standard)

Memory System

Refresh Memory Size

2048 Characters Standard
4096 Characters Maximum

Manifold Memory

12,288 Bytes maximum any combination
of ROM, RAM or PROM

Total Memory Size

16,384 Bytes maximum

Operating Features

Scroll up or down**Protected Field**

Any portion of the display may be designated
as a protected field. Protected fields are not
transmitted

Auto Tab

The cursor automatically skips to the first
non-protected character location when TAB
is depressed and protected fields are
displayed

TAB

Typewriter Type TAB action. TABs may be set
at any character position in any line

Addressable Cursor

The cursor may be addressed to any location
or the current cursor address read-out on
command under computer control

Physical Dimensions

Width—17 inches
Height—16 inches
Depth—23 inches
Weight—67 pounds

Edit Functions

Character Insert

In line at cursor location

Character Delete

In line at cursor location

Clear Line

Clear to end of line from cursor location

Clear Page

Clear from cursor location to end of page
except protected fields

Clear Memory

Clear all refresh memory including protected
fields

Options

Edit Function Program

Delete Character with Word wraparound
Delete Line with wraparound
Insert Character with Word wraparound
Insert Line with wraparound
Compacted Memory

Four Function Calculator Program**Keyboard Options**

Function Keys
APL Keyboard
Selectric® Keyboard
Special Purpose Keyboards

Code Conversion (8 bit maximum)**Polling****Character Sets**

Katakana
Cyrillic
Hebrew
Special Characters (maximum 224
displayable characters)

Custom Interfaces

Cassette Mag Tape
Floppy Disk
IBM 7/9 Track Compatible Mag Tape
Card Reader/Card Punch
Paper Tape Reader/Paper Tape Punch
Disk
Printer
High Speed Parallel

Customized applications programs

OMRON R & D

Information Products Division
432 Toyama Drive
Sunnyvale, California 94086
Telephone: (408) 734-8400

8025A



The Terminal
with "Variable I.Q."

PRICE LIST

8025A CRT TERMINAL (OEM WARRANTY) \$2,450.00

The above price includes factory service as defined in the OMRON Warranty Policy. If on-site warranty service and/or a service contract is desired, Option 036 must be selected.

Contact OMRON for quantity discounts and purchase agreements.

<u>8025 SERIES OPTIONS</u>		<u>PRICE</u>	<u>NOTES</u>
-001	Edit Function Program	\$ 400.00	
-002	4 Function Calculator	195.00	
-023	APL Keyboard	RPQ	
-024	Typewriter Keyboard	RPQ	
-025X	Special Keyboards	RPQ	1
-027X	Special Display Character	RPQ	1
-028X	Polling	300.00	1
-032	2048 Bytes added RAM	580.00	2
-033	2048 Bytes added RAM	690.00	3
-034	4096 Bytes added RAM	1,050.00	2
-035	4096 Bytes added RAM	1,160.00	3
-036	Installation and Service Charge	645.00	4
-037	High Speed Parallel Interface	400.00	5

RPQ - Request Price Quotations

See Reverse Side for Peripheral Devices

740401A



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PERIPHERAL DEVICES that can enhance the SYSTEM include:

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>PRICE</u>	<u>NOTE</u>
* 1005	Single Cassette Drive to be used with OMRON Controller	\$1,150.00	3
* 1010	Single Cassette Drive with Controller and Interface to 8025A	2,200.00	
* 1020	Dual Cassette Drive with Controller and Interface to 8025A	3,160.00	
* 2306	Centronics Model 306 Printer with DMA Interface to 8025A	3,550.00	
* 3005	Single Floppy Disk to be used with OMRON Controller	1,350.00	3
* 3011	Omron Floppy Disk Controller with Single Disk Drive and DMA Interface to 8025A	2,350.00	
* 3012	As 3011 with 2 Disk Drives	3,500.00	
* 3013	As 3011 with 3 Disk Drives	4,650.00	
* 3014	As 3011 with 4 Disk Drives	5,800.00	

* These peripherals have not been released to manufacturing. Cassette Systems will be available for delivery on or before June 1, 1974. Floppy Disk Systems will be available for delivery on or before September 15, 1974.

NOTES:

- No. 1 Requires complete customer specification. Contact factory.
- No. 2 Ordered with unit.
- No. 3 Field addition.
- No. 4 Includes first-year, on-site maintenance (See Service Bulletins).
- No. 5 Replaces RS232C Interface.