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.”

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

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

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.

## 8025 SERIES OPTIONS

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
<th>Price</th>
<th>Notes</th>
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<tbody>
<tr>
<td>-001</td>
<td>Edit Function Program</td>
<td>$400.00</td>
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<tr>
<td>-002</td>
<td>4 Function Calculator</td>
<td>195.00</td>
<td>RPQ</td>
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<td>-023</td>
<td>APL Keyboard</td>
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<td>-024</td>
<td>Typewriter Keyboard</td>
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<td>-025X</td>
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<td>-036</td>
<td>Installation and Service Charge</td>
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<td>-037</td>
<td>High Speed Parallel Interface</td>
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**RPQ - Request Price Quotations**

See Reverse Side for Peripheral Devices
PERIPHERAL DEVICES that can enhance the SYSTEM include:

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<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
<th>NOTE</th>
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<tbody>
<tr>
<td>* 1005</td>
<td>Single Cassette Drive to be used with OMRON Controller</td>
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<td>* 1010</td>
<td>Single Cassette Drive with Controller and Interface to 8025A</td>
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<td>* 1020</td>
<td>Dual Cassette Drive with Controller and Interface to 8025A</td>
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<td>Centronics Model 306 Printer with DMA Interface to 8025A</td>
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<td>* 3005</td>
<td>Single Floppy Disk to be used with OMRON Controller</td>
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* 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.