

The  
answer is  
BEEHIVE



The choice  
is yours!

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**Distributed by:**

a family of  
**VIDEO  
DISPLAY  
TERMINALS**  
for

**OEM  
PLANNING**



**BEEHIVE  
INTERNATIONAL**

"A proven competitive manufacturer of smart terminals"



**MICRO<sup>®</sup>B**  
**MODEL DM10**  
Low Cost/Feature Enhancements

- Status Line
- Self Test
- Read Status
- Line Drawing
- 128 ASCII Character Set
- 14 Key Numeric Pad
- Time-of-Day Clock
- Detachable Keyboard

Beehive International's DM10 is an 8085A microprocessor controlled terminal offering numerous user oriented features: fixed tab stops occur every eight character positions; switch selectable scroll/non-scroll mode; and a non-destructive blinking cursor. The line drawing capability allows for the creation of graphic displays using the vertical and horizontal line feature. The "25th" status line is used extensively by the DM10 system firmware to display modes of operation, error messages, communication protocol data, and a time-of-day clock as well as a status message showing optional switch configurations.

OPTIONS ● 12" P42 Green Phosphor Monitor  
● 230 VAC ±10% 50 Hz



**MICRO<sup>®</sup>B**  
**MODELS DM1S, DM2S, DM3S**  
Flexible Applications Oriented

Beehive's socketed products are capable of being tailored to a multitude of markets. The unique concept of the socketed Micro Bee makes it one of the more versatile, flexible products on today's market. It is a flexible terminal whose socketed design accommodates a variety of emulation packages—packages purchased from Beehive, or custom generated software for special applications.

The basic terminal configuration comes with 4K of RAM plus sockets available for additional RAM population. Other configurations allow to 12K of RAM. Program sockets allow a maximum population of 12K of ROM. ROM locations are not populated. The auxiliary port, character generator and a line drawing generator are socketed/populated. The DM "S" series offers full communications capabilities with a standard RS232C/Current Loop main port in addition to the bidirectional serial auxiliary port. The empty RAM/ROM sockets allow for the expansion capabilities of the terminal to meet a wide variety of product applications.

Beehive offers standard emulators for the DM1S product: DEC VT52<sup>™</sup>(1), Microdata Prism<sup>™</sup>(2), Data General Dasher<sup>™</sup>(3), and Beehive's own DM1A<sup>™</sup>.

Population of the devices will vary according to the selected emulation package and/or Micro Bee "S" version.

(1) DEC VT52 is a trademark owned by Digital Equipment Corporation.  
(2) Prism is a trademark owned by Microdata Corporation.  
(3) Dasher is a trademark owned by Data General Corporation.

OPTIONS ● 12" P42 Green Phosphor Monitor  
● One row of function keys  
● 230 VAC ±10% 50 Hz



## MICRO B MODEL DM1A

**Expanded Function Capabilities**

- Function Keys
- Bidirectional Auxiliary Port
- Single Key Cursor Controls
- Detachable Keyboard
- Auxiliary On/Off Key
- Single Key Memory Lock
- Single Key Attribute Control

The expanded conversational DM1A incorporates all the DM10 features plus it allows for bidirectional, fully buffered communications to an auxiliary peripheral device. Communications between the CPU and the auxiliary peripheral device can be transparent to the terminal. Among the DM1A features is the ability to evoke the memory lock condition that allows the operator or host computer to lock a portion of the display memory while retaining the capability to enter or receive data in the unlocked portion of the display. Non-displayable character attributes are available on each line which enables the selection of video levels such as normal, reverse, blink, underline, half intensity, and security. The line drawing capability allows for the creation of graphic displays using the vertical and horizontal line feature. The expanded characteristics of the DM1A include X-Y addressing, read cursor address, invisible memory address pointer, 128 ASCII character set with descenders, 24 x 80 display format, and read terminal status.

OPTIONS ● 12" P42 Green Phosphor Monitor  
● 230 VAC ±10% 50 Hz



## MICRO B MODEL DM20

**Editing**

- Buffered Transmission
- Editing
- Protected and Unprotected Fields... Logical Numeric/Alphanumeric Attributes
- Modified Data Transmission
- XON and XOFF Protocol
- Detachable Keyboard
- Self Test
- Memory Lock
- Buffered Auxiliary Port
- Line Drawing
- Status Line
- Function Keys

Beehive's DM20 is an 8085A microprocessor controlled buffered video display terminal offering all of the features of the DM1A *plus* editing and other added enhancements to address both interactive and batch mode markets.

For example, data transmission can be selectively designated as conversational, line, message or page. Operational characteristics are enhanced by the addition of local and line monitor modes. The forms mode allows the operator to prepare a form with specific visual and logical attributes on the display screen, and then transmit it to a host computer or auxiliary device.

A bidirectional buffered serial auxiliary port, fixed tabs, clear entry function, time-of-day clock, 128 ASCII characters with descenders on lower case characters, invisible cursor, CPU message deposit, line monitor mode, CPU line lock, and transparent printing are standard. A variety of significant field attributes are available and enhance data entry capabilities of the terminal. The DM20 keyboard has two rows of half-size keys located above the standard TTY/typewriter keyboard layout which include sixteen function keys, editing, cursor, and system mode/control keys. The invisible memory address pointer can be used to read and write to and from the display memory independent of visible screen functions.

OPTIONS ● 12" P42 Green Phosphor Monitor  
● 230 VAC ±10% 50 Hz



## MICRO B MODEL DM30

**Multi-Page/Editing**

- Multi Page Operation
- Editing
- Memory Lock
- Detachable Keyboard
- Parallel or Centronics™ Port
- Status Line
- Function Keys
- Formatting

In addition to incorporating all DM20 features, Beehive's new DM30 provides expanded display memory and a Centronics™ plug compatible parallel printer interface as standard.

In its standard form, the DM30 provides a two page display memory, with scrolling and paging controls. Screen presentation is on 24 lines x 80 characters with the "25th" line utilized as a status line providing prompts on the terminal and system modes, error messages and a real time clock. Editing and formatting facilities are provided throughout the display memory including selectable entry parameters for alpha, numeric, total fill, must fill, constant and modified mode. Twenty-one combinations of visual attributes are provided via non space consuming codes.

Communications facilities via the serial asynchronous RS232C, main and auxiliary ports are speed selectable via software or hard switches up to 19200 baud. Internal current loop is selectable on main port up to speeds of 9600 bps. An internal switch selectable protocol permits passing of data between ports at differing speeds while maintaining local data entry facilities for the operator. Standard communications facilities of the DM30 include conversational, line, page, block or message modes.

The DM30 contains many sophisticated user oriented features, such as the forms build and page dump facilities, permitting the user to locally generate formats and screens previously requiring system programming. All features standard to the Micro Bee product line such as cursor addressing, sensing, function keys, etc., are standard DM30 features.

\*Trademark is owned by Centronics

OPTIONS ● 12" P42 Green Phosphor Monitor  
● 230 VAC ±10% 50 Hz



**"Service is a part of product quality"**

**Meeting a challenge — quality products, properly serviced**

Beehive International has a firm reputation for quality products. But, quality does not stop when a product is sold. Service for the customer is a major contributor to the solid reputation for quality that has been earned by Beehive.

**You start off right with Beehive**

All Beehive terminals undergo extensive testing and re-testing as part of stringent quality control measures specifically designed to eliminate any service problems that may be encountered through neglect or poor workmanship. Be assured, your terminal(s) incorporates latest state-of-the-art technology and is backed by a highly trained field engineering staff utilizing the most sophisticated service equipment available.

**Beehive Service — where you need it . . . when you need it**

East and west coast service depots and ten Beehive operated field offices are located in major metropolitan areas. These are complemented by over 400 Beehive/Western Union supported field organizations strategically located to provide optimum turnaround time in any area within the United States. Beehive Europe, a subsidiary located in Amsterdam, The Netherlands, and distributors located in thirty-four countries service Beehive's product line on an international scale. No matter where you are located, your service problem remains a top priority and its immediacy is not diminished by geographical location.