



# Specialist Bar Code Modules

Internal / Printronix / Coax & Twinax

Converts standard printers into powerful bar code and labelling printers

- 1 Bar Codes
- 1 Large Characters
- 1 Lines and Boxes
- 1 Simple to Program
- 1 Transparent
- 1 Colour Printing
- 1 40,000+ Installations

Image has the labelling solution for your business. Sophisticated, yet easy to use, our Bar Code Modules for specialist applications include internal modules, high speed units for printers such as Printronix and units for direct connection to main-frame addressed by our Twinax and Coax modules.

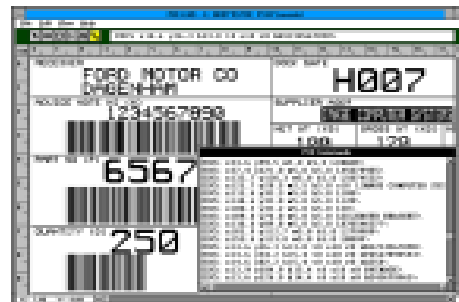
## Powerful

Adding a Bar Code Module does not affect the normal operation of the printer. It simply extends the printer's command set to include bar codes, large characters and box drawing. Specialist module output can be mixed with normal text and printed anywhere on the page, allowing maximum design freedom.

## Easily Integrated

Programming the Bar Code Module is very simple, a single command generates a complete bar code. All major bar codes are addressed and can be produced on any existing program - simply precede the data to be encoded by the selected trigger code and the bar code will be printed. If the program can print the data normally then it is a simple matter to turn it into a bar code. To print a Code 39

bar code encoding ABC123, all that has to be sent is <ESC>ibABC123\. If it is difficult for your application to send an escape code then alternative codes are available.



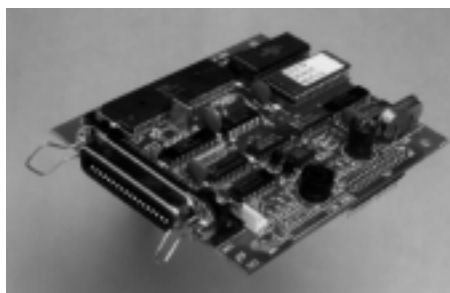
PCE-CAD command language generator  
PCE-CAD is available on request to ensure simple programming for specialist Bar Code Modules.

## Compatible

All Image Bar Code Modules use the PCE command language. Programs developed for one printer type will work with other types fitted with a module. Upgrading to a faster printer for an application is possible without software revisions. Units are available with parallel or serial interface or appropriate conversion for twinax or coax applications to the host. Image are continually developing modules for new printers. Bar Code Modules are available for a wide range of printers, including laser, dot matrix, ink jet, thermal, thermal transfer and shuttle matrix.



External modules can drive a wide range of printers. The unit plugs into the printer's parallel port and offers parallel, serial or a special interface to the computer. Power is taken from the printer or from an external transformer unit. Image now have a 2-dimensional Bar Code Module available.



Internal modules are available for fitting into OKI, Lexmark, EpDson, Brother, Data Products, IBM, Texas Instruments and Printronix printers. Image is continually developing Modules for new printers. Option set-up is by menu, avoiding the need for DIP switches.

## Specialist Bar Code Modules available

### External

Mainframe connectivity

#### ME27CX (coax)

#### ME27TX (twinax)

External controller for Epson FX, Epson LQ or IBM ProPrinter compatibles.

#### LE00CX (coax)

#### LE00TX (twinax)

External controller for all laser printers compatible with HP Laserjets.

High Speed Printronix

#### SE37P (parallel)

#### SE37S (serial)

#### SE37CX (coax)

#### SE37TX (twinax)

External Module for Printronix printers or compatibles

### Internal

Bar Code Modules

#### MI27P-EPS (parallel)

#### MI27S-EPS (serial)

Internal Module for OKI, Lexmark, Epson, Brother Printers.

## Specification

### Bar codes

- Code 39
- 2-of-5
- EAN/UPC
- Codabar
- MSI/Plessey
- Code 128
- Telepen, Telepen numeric
- UK Postal (RM4S)
- Postnet
- FIM

Bar codes can be printed in a variety of styles and ratios to suit the application. Options are included for automatic check digit generation and printing human t3 readable data under the bar code. All major bar codes are addressed and can also be printed sideways on laser and shuttle matrix printers.

### Large characters

Character widths and heights are independently variable from 2mm-300mm on matrix and 1mm-150mm on laser printers. Characters can be printed normal or inverse (white on black). Additional shading options are available on matrix printers. Characters can be printed rotated in one of four orientations.

### Lines and boxes

Lines and boxes up to 300mm wide and 300mm high variable thicknesses.

### Colour printing

Black + 6 colours on colour printers.

### Interfaces to computer

Parallel Centronics, Serial RS232 Twinax or Coax.

### Power requirements

Powered from printer 5v at 110mA (pin 18 of Centronics connector) or mains powered 220-250vAC 50/60Hz 10vDC 300mA external transformer unit. Some printers supply +5 volts so the external transformer is not needed.

### Alternative trigger codes

In some situations (e.g. from a mainframe) it is not possible to send the ESCAPE character. The Bar code module includes an option to use a standard character, such as @, in place of <ESC> the code.

### Hex input code

All character codes (00-FF hex) can be sent using this mode. This overcomes the difficulty that mainframes have in sending some codes. Only 0-9, A-F and ESC (or its alternative) need be sent. The controller translates these into actual printer codes.

### Printer command extension

Bar codes, large characters and lines can be freely mixed with all the printer's normal output including 10/12/17 cpi normal or NQL text, printed at 6 lpi or any other vertical spacing. The printer's existing command set is simply extended with the labelling commands.

### Ribbon wear monitor

For matrix printers, a count is kept of printhead use. An alarm sounds to indicate that the ribbon needs changing. This ensures good print contrast for bar codes.

### Option set-up

The options are set by using two buttons. A menu is printed allowing selections to be made. Once selected the options are stored in non-volatile memory. No DIP switch settings are necessary.

### Compatible printer codes

Modules are available for printers that have control codes compatible with the following: Epson FX, IBM ProPrinter and LaserJets. Most printers are compatible with one of the above.

### Laser printer version

The laser version works with lasers in HP LaserJet compatible mode. There is no need for font cartridges or extended memory. Font elements are downloaded to the printer allowing labelling to be done at normal printer speed.