



Website: [www.heber.co.uk](http://www.heber.co.uk)

Sales: +44 (0) 1453 732302  
sales@heber.co.uk

Support: +44 (0) 1453 732312  
support@heber.co.uk



## Calypso 16 Bring your games to life.

### Calypso 16

Calypso 16 is an add-on graphics display controller specifically designed for Pluto 5 and Pluto 5 Casino embedded gaming controllers. If you are developing a video game with Pluto 5 and want thrilling graphics, simply add Calypso 16 to your Pluto 5 controller and bring your gaming application to life.

### Stunning graphics effects

Calypso 16 utilises a powerful Fujitsu Cremson graphics processor with 16MB of video memory enabling CGA, VGA, and SVGA graphics to be produced. The layering feature enables up to six layers of solid, transparent or semi transparent images to be created. Background and foreground images can be used as they are loaded into the fast video memory. A scrolling function enables an image plane larger than the viewable area to be created, allowing specific areas to be revealed as the game progresses.

### Additional program storage

Calypso 16 has two sockets that enable EPROMs from 1MB to 4MB to be fitted for additional program storage. An optional EPROM expansion card can also be fitting giving a possible 16MB of storage space.



### Key features

- Fujitsu Cremson graphics controller
- Resolutions up to 1024 x 768 x 16 bit
- 2D Hardware acceleration
- BitBLT (Bit Block Transfer) engine
- EPROM expansion sockets
- Connector for IDE / Hard Disk / COD-ROM / Compact Flash options
- Touchscreen interface

### Ideal for...

- Enabling video graphics
- 2D Video graphics

### The Heber advantage

When you buy Pluto 5 with Calypso 16 from Heber you benefit from:

- 25 years gaming industry experience
- 14 years Pluto design heritage
- Compliance with worldwide gaming standards
- Free customer support
- Our team of dedicated specialist engineers
- Total product dependability

### Graphics Processor

Fujitsu Cremson  
Resolutions up to 1024 x 768 @ 16 bits per pixel  
2D video acceleration functions  
Up to 6 layers of image overlay

### Memory

Video memory - 16MB SDRAM  
2off 42-pin EPROM sockets - accept 1MB, 2MB or 4MB devices

### Ports

Video out - 15 way sub-miniature D-type female socket  
Touch screen serial port - 9 way D-type male socket  
Hard drive/CD-ROM/Compact Flash reader port - 40 way IDE header

### Host Interface

Piggy back header to Pluto 5/Pluto 5 Casino expansion interface  
All power (+12V) provided via header from host system

### Dimensions

151mm x 143mm (5.9" x 5.6")

### Fujitsu Cremson Graphics Processor

#### Operating Frequency

100 MHz (External clock of 14.32 MHz)

#### Drawing Features

Drawing at a peak rate of 800Mpixels/sec (at internal operating frequency of 100MHz)  
2D drawing functions: point, line triangle, polygon, BLT, pattern drawing  
3D drawing functions: point, line, triangle drawing, hidden surface removal by Z-buffering  
Special effects: anti-aliasing , bold/dashed-line processing, alpha blending, Gouraud shading, texture mapping (bilinear filtering, perspective correct), and tiling.



#### Related datasheets

Pluto 5  
Datasheet 80-20230

Pluto 5 Development Kit  
Datasheet 80-20243

Datasheet 80-20241-1 08/08

© Heber Ltd 2008  
Heber Ltd, Belvedere Mill, Chalford,  
Stroud, GL6 8NT. UK

Precise specifications may change  
without prior notice. E&OE.

This document does not constitute  
an offer for the sale of any particular  
product. All trademarks are  
acknowledged.