



## Calypso 16 Video Graphics Card

The **Calypso 16** Video Graphics Card allows the **Pluto 5** or **Pluto 5 Casino** Control Boards to drive CGA, VGA or SVGA monitors. The Video Graphics Card plugs into the I/O and memory expansion connectors of **Pluto 5** or **Pluto 5 Casino**, thereby providing a cost effective video control system for an amusement machine.

**Calypso 16** is based on a Fujitsu Cremson Graphics Controller. This features a BitBLT (bit block transfer) engine to support fast animation, 2D and 3D hardware acceleration and other advanced features.

**Pluto 5** with **Calypso 16** can be used to drive any monitor complying with VGA or SVGA standards at resolutions up to 1024 x 768 pixels (non-interlaced). The Card is also compatible with low cost CGA type analogue monitors.

16 Mbytes of video display memory is fitted. Two sixteen bit wide (42 pin) EPROM sockets are provided to give a maximum system program memory size, including the **Pluto 5** Board, of 10 Mbytes, or 14 Mbytes with an additional EPROM expansion card.

In addition, the **Calypso 16** Video Graphics Card has Touchscreen capabilities, a 9 way D type RS-232 connector and an IDE connector providing an interface to a Hard Disk Drive or a CD-ROM Drive, allowing video images and sound samples to be rapidly loaded during games.

This combination of functions allows the creation of exciting games, even combining video with reels, at a minimum cost.



Calypso 16

# HEBER

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## SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Video Controller</b> | <ul style="list-style-type: none"> <li>Fujitsu Cremson Graphics Controller:</li> <li>Up to 1024 x 768 resolution @16bits/pixel.</li> <li>2D and 3D acceleration functions.</li> <li>4 layers of overlay display.</li> </ul>  |
| <b>Host interface</b>   | <ul style="list-style-type: none"> <li>Piggyback board for <b>Pluto 5/Pluto 5 Casino</b>.</li> </ul>   |
| <b>Power Supply</b>     | <ul style="list-style-type: none"> <li>+12V from <b>Pluto 5/Pluto 5 Casino</b> host.</li> </ul>  |
| <b>I/O Connectors</b>   | <ul style="list-style-type: none"> <li>15 Way sub-miniature D Socket – Video Out.</li> <li>9 Way D Plug – RS-232.</li> <li>40 Way Header – IDE.</li> </ul>   |
| <b>Video RAM</b>        | <ul style="list-style-type: none"> <li>16Mbyte SDRAM</li> </ul>  |
| <b>EPROM</b>            | <ul style="list-style-type: none"> <li>2 x 16 Bit wide, 42 pin EPROM Sockets</li> <li>EPROM Sockets accept 1Mbyte, 2Mbyte or 4Mbyte parts</li> <li>Maximum System EPROM:               <ul style="list-style-type: none"> <li>2Mbyte on <b>Pluto 5</b> or <b>Pluto 5 Casino</b></li> <li>8Mbyte on <b>Calypso 16</b></li> <li>4Mbyte on <b>Pluto 5</b> (4 x Eprom) Expansion Card</li> </ul> </li> </ul> |
| <b>Serial I/O</b>       | <ul style="list-style-type: none"> <li>RS-232 channel for Touchscreen</li> </ul>   |
| <b>IDE</b>              | <ul style="list-style-type: none"> <li>Supports Hard Disk or CD-ROM</li> </ul>   |
| <b>Mechanical</b>       | <ul style="list-style-type: none"> <li>Single 4 Layer PCB Assembly.</li> <li>151mm x 143mm</li> </ul>  |

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