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Pluto 6

Dual Video gaming control system, perfectly suited for dual screen video or spin reel machines.

Pluto 6

Pluto 6 is part of the internationally successful Pluto range from Heber. It is a high performance embedded control system with dual video capability and flexible memory options. It can drive up to 8 reels and features a wide range of standard options that allow you to control your application, from reel based machines, casino and gaming machines, as well as video gaming machines.

Video capability

Heber's Calypso 32 can be added to Pluto 6 if video performance is desired. Calypso 32 is an accelerated video graphics controller, which allows fast-moving 2D graphics and provides 32MB of video memory. Pluto 6 can also be combined with up to two Calypso 32 boards for dual video performance. This powerful combination enables advance graphics, video and special effects to be produced. Using a Calypso 32 with Pluto 6 means you can be more creative for your customers.

Sophisticated security

Safety against game piracy is imperative. Pluto 6 uses two-stage customer-specific security giving superior protection to your gaming application. A security chip and security software ensure that once your application is developed it is well and truly safeguarded.



Add-on boards

At Heber we recognise the importance of flexibility. That is why we offer a choice of optional add-on boards that can be connected to Pluto 6 to provide extra functionality and flexibility. These allow you to customise and connect your Pluto 6 to other gaming machine peripherals.

Key features

- Compact Flash game storage
- Single or dual video outputs with Calypso 32
- Multi-channel audio with stereo outputs
- Multi-level software security
- 256 Lamp and 256 LED Multiplexing expandable to 512 Lamps/LEDs
- Controls up to 8 reels

Ideal for...

- Single or dual video embedded gaming systems
- Spin reel gaming systems
- Hybrid spin reel/video gaming systems

The Heber advantage

When you buy a Pluto 6 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

Pluto 6 Technical specifications

Processor

Freescale™ ColdFire® MCF5206e running at 40MHz

Program Memory

1 off Compact Flash card

Battery Backed RAM

256KB including:
• 90 Day hold-up time

System Memory

2MB of DRAM

Audio

Stereo codec output with software multi-channel mixing
5W + 5W Audio amplifier with software volume control

Real Time Clock

Real time clock fitted as standard

Serial Communication Ports

Up to 6 UARTS
UART's routed under software control to the following:
4 off RS232 ports including:
• BACTA compliant dataport
1 off 5V TTL level UART
1 off RS485
2 off ccTALK
1 off I²C

Parallel I/O

64 off Open drain outputs
32 off Inputs with +5V pull ups
6 off TTL Lines

LAMP/LED Multiplexer

256 Lamps, 12V 1.2W +48V supply including:
• LAMP short and present detect
• Eight level individual dimming capability
256 LED's, 32 seven segment displays including:
• Eight level individual dimming capability

Switches

16 off DIL switches
1 off Push button switch

Security

Removable customer specific security device
+12V Current sensed meter supply
4 off Power off switch monitors
1 off BACTA standard percentage key connector
1 off BACTA standard stake key connector

Expansion Capabilities

3 off Memory bus expansion which includes:
• Video add on capability with Calypso 32
1 off LED/lamp multiplex expansion
1 off EEPROM socket

Power Supply

+5V DC unregulated (+-5%)
+12V DC unregulated (+-5%)
-12V DC unregulated (+-5%)
+48V DC when using multiplexed lamps

Dimensions

282mm x 206mm (11.1" x 8.1")

Video Capabilities

Single video output when fitted with one Calypso 32 video add-on card
Dual video outputs when fitted with two Calypso 32 video add-on cards

Calypso 32 Features Graphics Processor

Fujitsu Cremson with the following:
• Maximum resolution 1024 x 768
• Maximum color depth 16bpp
• Up to 4 Layer of image overlay
• Accelerated 2D drawing
• Accelerated 3D drawing
• Anti-aliasing
• Alpha blending

Graphics Memory

32MB of SDRAM memory, 64bit bus running at 100MHz



Related datasheets

Calypso 32
Datasheet 80-20242

Pluto 6 Development Kit
Datasheet 80-20244

Datasheet 80-20231-1 04/08

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