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Pluto 5

Embedded gaming control system ideally suited for spin reel machines.

Pluto 5

Pluto 5 is part of the internationally successful Pluto range from Heber and has remained a best seller since its introduction back in 1998. As an entry level, low-cost embedded control system, Pluto 5 has become the industry standard for spin reel gaming machines, with over 400,000 distributed world-wide.

Video capability

Heber's Calypso 16 can be added to Pluto 5, if video performance is desired. Calypso 16 is an accelerated video graphics controller which allows fast-moving 2D graphics. It provides 16MB of video memory to store, move and use multiple images to produce slick gaming effects. Using a Calypso 16 with Pluto 5 means you can be more creative for your customers.

Pluto 5 Casino

If you are looking for something extra, Pluto 5 Casino, an enhanced version of Pluto 5, really delivers. It provides you with additional connectivity, extra battery backed memory and even greater security. And if all that wasn't enough, it also monitors crucial input lines which can allow you to, amongst other things, detect any tampering with the cash box when the machine is switched off.



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 5 to provide extra functionality and flexibility. These allow you to customise and connect your Pluto 5 to other gaming machine peripherals.

Key features

- Unique FPGA security
- 256 Lamps and 256 LEDs
- Serial communication ports
- Memory expansion options
- Video option
- Controls up to 8 reels
- Add-on board options
- Enhanced Casino version option

Ideal for...

- Low-cost embedded gaming systems
- Spin reel gaming systems

The Heber advantage

When you buy a Pluto 5 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 5 Technical specifications

Processor

Freescale™ 68K MC68340 running at 16.7MHz

Program Memory

Up to 2MB of EPROM

Battery Backed RAM

64KB including:

- 40 Day hold-up time

Pluto 5 Casino

96KB including:

- 40 Day hold-up time

Audio

Single channel OKI ADPCM audio codec.
Optional second channel OKI ADPCM audio codec for stereo

5W + 5W Audio amplifier with software volume control

Real Time Clock

Socket option for real time clock

Serial Communication Ports

2off RS232 ports including:

- BACTA compliant dataport

1off I²C

Pluto 5 Casino

7off RS232 ports including:

- BACTA compliant dataport

1off 5V TTL level UART

1off I²C

Parallel I/O

64off Open drain outputs

32off Inputs with +5V pull ups

6off TTL Lines

LAMP/LED Multiplexer

256 Lamps, 12V 1.2W +48V supply including:

- Lamp short and present detect
- Dimming capability

256 LED's, 32 seven segment displays including:

- Dimming capability

Switches

16off DIL switches

1off Push button switch

Security

Removable customer specific security device
+12V Current sensed meter supply

Pluto 5 Casino

Removable customer specific security device
+12V Current sensed meter supply
7off power off switch monitors

Expansion Capabilities

1off Memory bus expansion which includes:

- Video add on capability with Calypso 16

1off LED/lamp multiplex expansion

1off EEPROM socket

Power Supply

+12VDC unregulated (+-5%).

-12VDC unregulated (+-5%).

+48V when using multiplexed Lamps

Dimensions

206mm x 188mm (8.1" x 7.4")

Pluto 5 Casino

206mm x 253mm (8.1" x 9.9")

Video Capabilities

Single video output when fitted with a Calypso 16 video add-on card

Calypso 16 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

16MB of SDRAM memory, 32bit bus running at 100MHz



Related datasheets

Calypso 16
Datasheet 80-20241

Pluto 5 Development Kit
Datasheet 80-20243

Datasheet 80-20230-1 04/08

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