

F i R E F L Y

Firefly 700 - High power multimedia gaming machine system

Grabbing attention in gaming gets harder by the day. To gain an advantage you must push the limits, and that requires power – *the kind provided by Firefly 700.*

Firefly 700 is the latest offering from Heber, *the* name in gaming that you know and trust. Firefly 700 offers the perfect platform for your next generation multimedia extravaganza.

In consultation with industry-leading producers, we created the Firefly 700 system specifically to provide firepower for the most dazzling screen and audio effects. During the design phase our partners told us that, next to sheer power, they wanted absolute reliability. They also wanted a compact unit that was easy to incorporate into existing housings, together with industry compatibility to shorten development time to a minimum. Yet, they said, it should be adaptable, with input monitoring and the option of power output control to literally light up the room. The list went on – they needed consistency of supply, so that a machine developed now could still be produced further down the line. Finally of course, they insisted on the backup and support for which Heber are renowned.

We think that the Firefly 700 meets and exceeds its original requirements and, given its reception so far, so do the key industry players. Here's how we did it:

Power and graphics ability – We took the most powerful family of mainstream processors and carefully combined them with their natural partner, the Intel® 845GV chipset. This combination of awesome raw processing power and intensive 3D graphic control is what will make your screen come alive. Additionally, for multi screen consoles, the Firefly 700 expansion slots give you the flexibility to use your choice of industry-standard video controllers.

Compatible – Full compatibility with standard PC systems is a key benefit delivered by Firefly 700. Its ability to run all major PC operating systems gets you going faster. Many of our current clients are finding success with Windows® XP® embedded. This allows you to include only the parts of the vast Windows XP resource that are required for your particular application, saving space and cutting out unnecessary complexity.

Compact – All elements of the Firefly 700 system are housed within a compact, well ventilated enclosure. Interior access and connections are all made at the front face to simplify positioning within your game chassis.



Real world connectivity

Firefly 700 features an array of links to the world outside. In addition to its audio links, its serial connectors and dual USB ports it also includes a network connection for easy

linking to other systems. Add-in the Firefly X10 expansion board and things really get interesting: Now you've got a highly adaptable control system with up to 28 input channels and up to 38 power outputs. That's all in addition to the audio amplifier plus ccTalk and HII ports to link with your note acceptors and coin mechanisms. The Firefly X10 also keeps you covered in all conditions - its battery backed circuitry is smart enough to know whether those all important winnings have been paid, even in the midst of a power outage.

Consistency – When your game is a hit, you will want to keep repeating the success. That is why we use only market leading components and apply strict control over our supply chain. The system that you specify today can be the same one that you reorder next year.

Quality – At Heber we never leave things to chance - sample batch testing just doesn't cut it. That is why we are fully ISO 9001 accredited and why every single system that we supply is 100% tested, certified and traceable.

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Technically speaking

From outline design to completed console, Firefly 700 gets you going faster. Our modular approach and range of options allow you to create customized controllers using standardized components. Key items include the operating system and



multimedia programming environment - this is where Windows XP Embedded and DirectX® complete the picture. Our full accreditation as a Microsoft Windows Partner ensures that we are amply qualified to provide complete developer backup. Taken altogether, Firefly 700 means that creating your next system can be as straightforward as one, two, three:

Three steps to specify your perfect gaming system

1 - Begin with an initial configuration:

- Firefly 700 base board (specification shown opposite)
- Intel Celeron processor @ 2GHz
- 256MB PC266 DDR RAM
- 40GB hard drive
- Microsoft Windows XP Embedded

2 - Choose your upgrade options:

A full range of upgrade options allow you to customize the initial configuration to best suit your unique gaming system:

- Firefly X10 multiple I/O module (control and security)
- Processor upgrades (Pentium® 4 and higher speeds)
- Memory upgrades (up to a possible maximum of 2GB)
- PCI Graphics card (for dual screen systems)
- 2 or 4 additional USB ports
- Compact Flash card (to replace hard drive)
- CD-ROM or DVD player (bulk image and sound storage)
- CD-ROM drive booting (no hard drive)

3 - Select an enclosure:

Choose the most appropriate compact, EMC screened, ventilated enclosure to house your custom gaming system:

Firefly 700 system CO1 (pictured overleaf)

- Dimensions: 170mm (H) x 300mm* (D) x 450mm (W)
- Weight: 8.3Kg approximately
- Bay for CD-ROM or DVD drive

Firefly 700 system CO2

- Dimensions: 170mm (H) x 300mm* (D) x 400mm (W)
- Weight: 6.7Kg approximately

(* Including front panel handle)

Base board specification

Processor

- Intel Pentium® 4 or Celeron® processor - up to 3.06GHz +
- System bus 400MHz / 533MHz
- Support for Hyper Threading Technology

Chipset

- Intel 845GV, comprising:
82845GV Graphics & Memory Controller Hub (GMCH), and
82801DB I/O Controller Hub (ICH4)



Memory

- Two 184pin DIMM sockets (2.5V) supporting PC2100 DDR DIMMs up to 2GB

Video system

- Intel Extreme Graphics®

Audio system

- AC97 v2.2 compliant audio codec

BIOS

- Phoenix BIOS - 2MB Flash

Rear panel ports

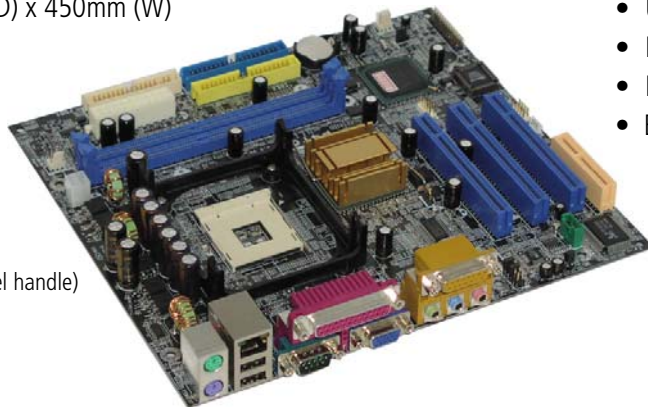
- Serial port - 9pin D-type male
- Video port - 15pin D-type female
- Parallel port - 25pin D-type female
- USB ports - 2 x 4pin (USB v2.0)
- Network port - RJ45 10/100Mbit/s UTP Ethernet
- Mouse & keyboard ports - PS/2 style
- Audio ports - 3.5mm jacks (line in, line out & mic)

Expansion slots and headers

- Three PCI slots
- Mass storage - Two Ultra DMA IDE ports with support for ATA-66/100 hard drives and/or CD/DVD drives
- Diskette - Supports two 3.5" type drives

Safety and EMC compliance

- UL1950
- IEC950
- EN60950
- EN55022:1997



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