

# ION UPGRADE KIT

SKU: NF610i-K-E-ION



Energize your computing experience with the ZOTAC ION™ Upgrade Kit featuring a ZOTAC small form factor motherboard and ION™ graphics card for computing that goes beyond simple web browsing. Combining a ZOTAC small form factor motherboard and ION™ graphics card enables users to take advantage of the CPU for general system usage while the high-performance ION™ graphics processor is available for premium tasks such as high definition video playback, OpenCL, DirectCompute and NVIDIA® CUDA™ powered applications.

Hardware decode acceleration of high-definition video formats such as H.264, VC-1, WMV, DivX®, MPEG-2 and MPEG-4 for ultra-smooth video playback of your favorite Blu-ray titles and movie files while Adobe® Flash® Player 10.1 video acceleration enables flawless playback of streaming high definition Internet video from sites such as YouTube™, Vimeo™, Hulu™ and more with the ZOTAC ION™ Upgrade Kit. NVIDIA® CUDA™, OpenCL and DirectCompute compatibility enables the ZOTAC ION™ Upgrade Kit to accelerate everyday tasks with the ION™ graphics processor – including video and image editing – for performance that rivals higher end systems while delivering a greater value.

## nForce® 610i-ITX Specifications

- Intel® LGA775 socket (Up to 65-watt TDP)
- Intel® Core™ 2 Duo, Quad, Pentium® & Celeron® ready
- Up to 1333 MHz front-side bus
- NVIDIA® nForce® 610i chipset
- Zero-noise passive cooling

## ION™ Graphics Card Specifications

- NVIDIA® ION™ graphics processor
- Engine Clock: 589 MHz
- Unified Shaders: 16
- Shader Clock: 1402 MHz
- 512MB DDR3 memory
- Memory Clock: 790 MHz
- Low-profile form factor

## Memory support

- DDR2-800
- 2 x 240 pin DDR2 DIMM slots
- Up to 4GB ram

## ION™ Graphics Card



## Motherboard Dimensions

- Mini-ITX form factor
- Height: 6.7in - 170mm
- Width: 6.7in - 170mm



## Inside the box

- 1 SATA cable
- 1 I/O back plate
- 2 I/O brackets (graphics card)



## Features

- NVIDIA® CUDA™ technology
- NVIDIA® PureVideo™ HD technology
- Microsoft® DirectX® 10.1 compatible
- Microsoft® DirectCompute compatible
- OpenCL compatible
- 5.1-channel High Definition Audio

## Storage support

- 4 SATA 3.0 Gb/s ports
- RAID 0, 1 support

## Expansion

- 1 PCI Express x1 (occupied by ION™ GPU)

## Connectors

- 8 USB ports (6 on back panel, 2 via pin header)
- 1 HD Audio Port (Line-in, Line-out, Mic-in)
- 2 PS/2 keyboard/mouse ports
- 1 RJ45 Ethernet (10/100)

## Display outputs

- DVI (HDCP compliant)
- HDMI (HDCP compliant)
- VGA (optional bracket)



## Size comparison

