ASRock®

Home Theater PC

ION 3D SERIES

NVIDIA 3DTV PLAY 3D | Windows 7 | intel Atom inside | dts Connect | HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE | b Wi-Fi n CERTIFIED | Blu-ray Disc | NVIDIA ION | ErP Ready less than 1 Watt in off mode | ENERGY STAR

Detail Specification ‹‹‹

Model	ION 3D 152D Series	ION 3D 152B Series
CPU	Intel® Atom D525 Dual core Processor	Intel® Atom D525 Dual core Processor
OS	Genuine Windows® 7 Home Premium (Optional)	Genuine Windows® 7 Home Premium (Optional)
Chipset	Intel® ICH8M	Intel® ICH8M
VGA	NVIDIA® GT218 Graphics (with 512MB DDR3 Frame buffer memory)	NVIDIA® GT218 Graphics (with 512MB DDR3 Frame buffer memory)
Memory	1x2G DDR2-800MHz Support DDR2 800MHz, 2x SO-DIMM slots, Max. up to 4GB	1x2G DDR2-800MHz Support DDR2 800MHz, 2x SO-DIMM slots, Max. up to 4GB
HDD	320GB Support 2.5" SATA HDD	320GB Support 2.5" SATA HDD
ODD	DVD Super Multi	BD Combo
Audio	7.1 Ch HD Audio with DTS	7.1 Ch HD Audio with DTS
LAN	Gigabit LAN	Gigabit LAN
Front I/O	2xUSB 3.0, 1xMIC, 1xHead Phone	2xUSB 3.0, 1xMIC, 1xHead Phone
Rear I/O	1 x HDMI, 1x D-Sub VGA, 1xDVI (Dual-Link) , 6xUSB 2.0, 1xS/PDIF	1 x HDMI, 1x D-Sub VGA, 1xDVI (Dual-Link) , 6xUSB 2.0, 1xS/PDIF
WiFi	1T2R 802.11b/g/n	1T2R 802.11b/g/n
Remote Controller	MCE Remote Controller	MCE Remote Controller
Power	65W/19V Adapter	65W/19V Adapter
Dimension	195 (W) x 70 (H) x 186 (L) mm	195 (W) x 70 (H) x 186 (L) mm
Volume(liters)	2.5L	2.5L
Weight	1.7 KG	1.7 KG

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Genuine Windows® 7 Home Premium
ASRock ION 3D HTPC series are fully compatible with Microsoft Windows® 7!

Low-power Intel® Atom™ D525 Dual Core CPU
Intel® Atom™ D525 CPU processor-based ION 3D HTPC series offers both an easy-to-use mobile device with simple interfaces and targeted performance for a good energy saving experience.

SuperSpeed USB3.0 HTPC System
ASRock ION 3D HTPC series comes with 2 x USB3.0 ports which delivers data transfer rates up to 10X faster than USB2.0 with the optimized power efficiency. USB3.0 promises a major leap forward in transfer speeds and capacity.

Next-generation NVIDIA® ION™ Graphics Architecture
Carried with the awesome Next-generation NVIDIA® ION™ graphics technology which is well-known for its outstanding graphics performance, ASRock ION 3D HTPC series enable you to immerse in a qualified movie and video phenomenon.

Native Full HD 1080p playback
Supporting Full HD 1080p playback, ASRock HTPC series give you "better than cinema" quality and the ultimate movie experience in the comfort of your own home!

dts Connect
Get the Cinema-Style Sound from your PC! With DTS, ASRock ION 3D series can let you enjoy a better way of experiencing music, movies and games. It delivers the advanced and excellent audio quality, enables you to hear every detail in riveting surround sound.

MCE Remote Controller
ASRock MCE Remote Controller is exclusively able to power on the system at the first time of the plug-in of AC power. It prides itself on delivering a fast, intuitive, convenient and rich media experience for the multimedia entertainments.

802.11n Wireless Networking
Allows two-way transmission direction, WiFi 802.11n provides a wider bandwidth to cover longer distance coverage.

HDMI 1.4a
ASRock ION 3D HTPC series supports onboard HDMI 1.4a output which support 3D formats for broadcast and movie content.

BD (Blu-ray Disc) Combo
BD Combo which not only supports Blu-ray disc, but also capable of burning and reading DVD and CD. It definitely brings you the efficient, stable data transfer, the dazzling audio and visual experience.

3DTV play
NVIDIA® 3DTV Play™ allows you to leverage the 3D processing power of your GPU to create an immersive 3D experience in your own home.

Dual Link DVI
With Dual Link DVI support, ASRock ION 3D HTPC Series support Blu-ray 3D Playback for your fantastic 3D experience. Supporting 120 Hz monitor with max. resolution up to 1920x1080(16:9) and 1920x1200(16:10); 60 Hz monitor with max. resolution up to 2560x1600.

① 2 x USB3.0 ports

② Microphone

③ Head Phone

④ Power ON/OFF button

⑤ DC-In jack

⑥ Optical S/PDIF Out port

⑦ Audio Jack x5

⑧ LAN (RJ-45) port: Local Area Network

⑨ 6 x USB2.0 ports

⑩ HDMI connector
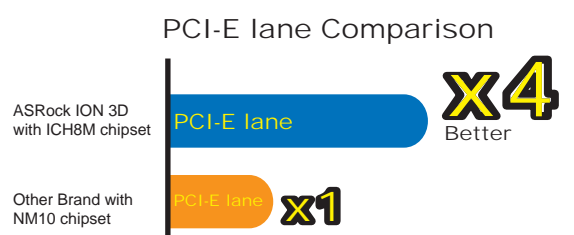
⑪ D-Sub Connector

⑫ DVI-D connector

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Performance Comparison

Based on Intel Atom D525 Dual-Core CPU, ASRock ION 3D HTPC is a powerful multimedia system that is perfect for you family! What's more, ASRock ION 3D is specially equipped with ICH8M chipset that allows Nvidia GT 218 GPU running at PCI-E x4!
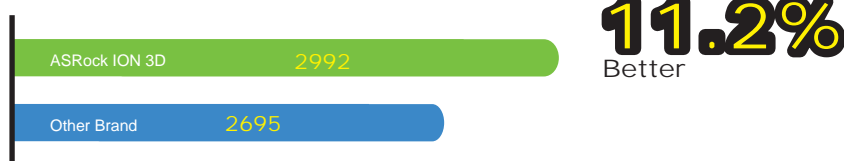
Configuration

Model	ASRock ION 3D	Other Brand
CPU	Intel Atom D525 1.8G	Intel Atom D525 1.8G
Chipset	ICH8M (PCI-E x4)	NM10 (PCI-E x1 only)
RAM	2GB	2GB
HDD	GT218-ION	GT218-ION
OS	Windows 7 Home Premium 64bit	Windows 7 Home Premium 64bit

PCI-E lane Comparison

ASRock ION 3D with ICH8M chipset

PCI-E lane **X4** Better

Other Brand with NM10 chipset

PCI-E lane **x1**

From below figures shown, you can clearly see that ASRock ION 3D surpassed all text subjects. In terms of system overall performance, graphics performance and game performance, ASRock ION 3D HTPC Series equipped with ICH8M chipset that offers better computer ability!
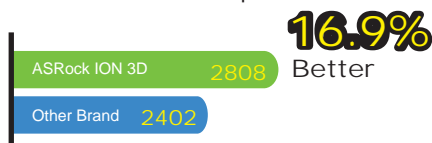
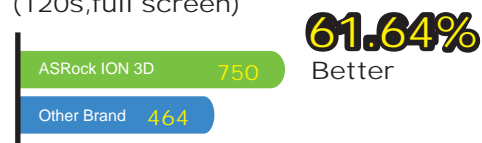## System Overall Performance

PCMark 2005 PCMark score

ASRock ION 3D	2992
Other Brand	2695

11.2% Better

Graphics Performance

PCMark 2005 Graphics

16.9% Better

ASRock ION 3D	2808
Other Brand	2402

FurMark 1.8.2benchmark (120s,full screen)

61.64% Better

ASRock ION 3D	750
Other Brand	464

Game Performance

Unigine Heaven DX11 (Score)

17.72% Better

ASRock ION 3D	93
Other Brand	79
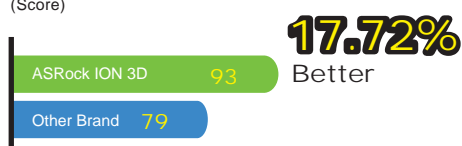
StreetFighter IV benchmark (Average FPS)

23.41% Better

|	
ASRock ION 3D	30.58
Other Brand	24.78
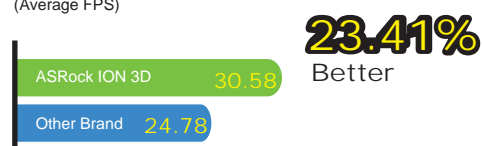
Home Theater PC

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SuperSpeed USB 3.0 Technology

Utilizing the world's best-known computer peripheral interface – USB 3.0, ASRock ION 3D HTPC Series set the new standard in high performance computing. Proving once again to be the pioneer in motherboard industry, ASRock ION 3D is equipped with two USB 3.0 ports in the front panel that ensures the world's fastest USB data transfer speed.

Delivering data transfer rates up to 10X faster than USB 2.0 with optimized power efficiency. USB 3.0 technology advances the data transfer rate up to 5Gb/s.

http://www.asrock.com/Feature/USB3/index.asp?cat=Introduction#Comparison
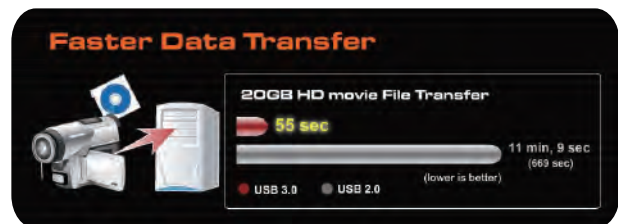
HDMI 1.4a

Keeping you in tune with life, the ASRock ION 3D HTPC allows users to enjoy the next dimension in multimedia entertainment. ASRock ION 3D is equipped with HDMI 1.4a output which supports 3D movie, photo and game.

NVIDIA 3DTV Play

NVIDIA 3DTV Play Software, included free with all 3D Vision PCs, powers the 3D PC experience when using a 3D TV and compatible 3D TV manufacturer's glasses. Experience all of the same great 3D Vision PC content on your big-screen 3D TV! ASRock ION 3D has bundled with NVIDIA 3DTV Play Software that enables 3D features and applications support on all HDMI 1.4a 3D TVs.

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ASRock ION 3D HTPC Series deliver the terrific viewing experience. It has a powerful build-in Next-Generation ION graphics which supports 3D display, allowing user to enjoy a vivid 3D entertainment experience! With its amazing 3D display capability, you are able to experience the highest quality movie like never before!

What You Need For 3D ?

3D Monitor

NVIDIA 3D Vision Kit + **3D Vision-Ready Display** 120Hz + **ASRock ION 3D**

3D TV

HDMI 1.4 Enabled 3DTV and 3D Glasses + **ASRock ION 3D**

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**ASRock AIWI -
Turn Your iPhone Into Game Joystick**
Playing Games by Holding Your iPhone or iPod touch

AIWI

ASRock AIWI utility introduces a new way of PC gaming operation. ASRock AIWI is the world's first utility to turn your iPhone/iPod touch as a game joystick to control your PC games.

All you have to do is just to install the ASRock AIWI utility either from ASRock official website or ASRock software support CD to your ION 3D, and also download the AIWI Free from App store to your iPhone/iPod touch. Connecting your ION 3D and apple devices via WiFi network, then you can start experiencing the exciting motion controlled games.

System requirement:
iPhone or iPod touch

ASRock HTPC with
ASRock AIWI PC Software

AIWI