

Asus AT3IonT-I Deluxe + Debian = All in one

What can you do with the motherboard for a few hundred dollars? Not much, but if we will add 2 hard drives, RAM and Debian operating system, then we have a fully functional server that can do everything ..

Subject extensive. If I had to describe everything in sequence starting from the submission of the hardware and Linux installation, ending with the configuration of services, I would have to sit up at night. Unfortunately I am too old for that. Therefore, I will describe only how to use such equipment. Whether it is useful or not it is an individual matter. If you do not know what is Linux, open source, etc., do not ask me. I have spent already too much time at night..

Equipment:

Asus AT3IonT-I Deluxe 630 PLN

RAM KVR1066D3N7K2/4G 147 PLN

Fractal Design Array Enclosure Mini ITX R2 425 PLN

HDMI cable 30 PLN

Total of 1,232 PLN

Fortunately, I have enough hard drives that allowed me to reduce costs;)

Suppose, we have already made our server and we have enough knowledge. What next?

1. Install Debian 6.0 amd64 Squeeze (<http://www.debian.org>)
2. Add the virtualization (<http://linux-vserver.org>)
3. Configure isc-dhcp-server (<http://www.isc.org/software/dhcp>)
4. Install XMBC (<http://xbmc.org>)
5. Install hostapd (<http://hostap.epitest.fi>)
6. Install the SAMBA package (<http://www.samba.org>)

What we have?

- Wifi router,
- File server,
- Remote managed media server - music, full-hd movies,
- A platform for the hosting (web, email and many others)

These are just a small part of possibilities. Maybe I will add more information soon. Meanwhile, it's all what I can do;)

The advantage of such machine is that it consumes less power than an ordinary PC. It is not a speed demon, but can easily cope with simultaneous movies playback, Internet sharing, running several virtual machines, particularly this blog..