

Mini ITX test

To test our mini HTPC case we searched online a Mini ITX main board with all the features that are essential for those people who would like to build a minicomputer.

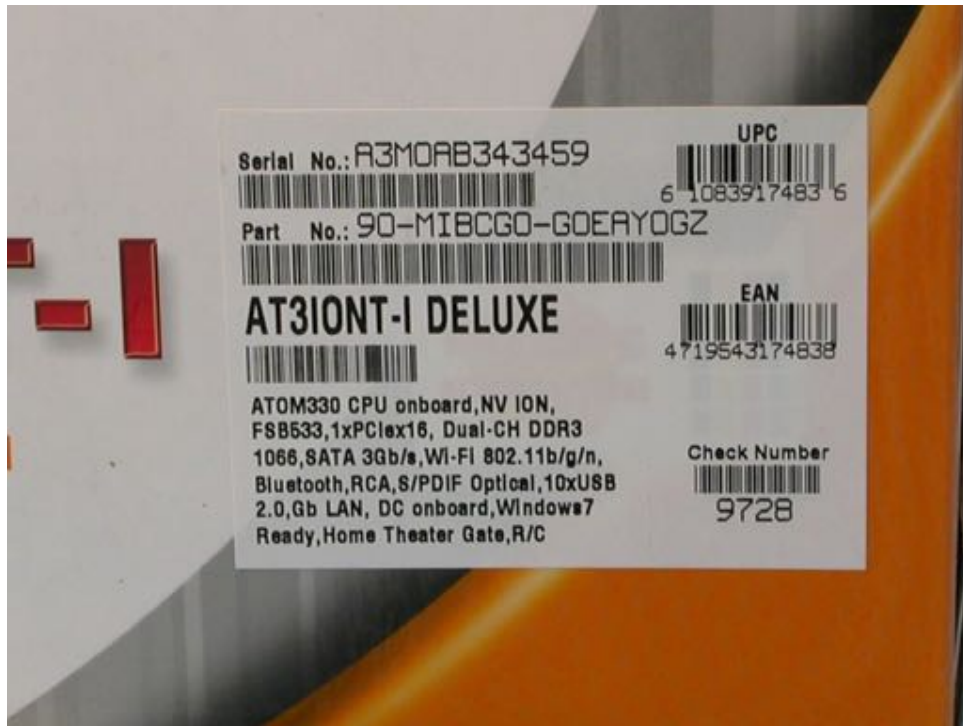
- 1) Dual Core processor with an inner heat sink and without any fan
- 2) HDMI hole
- 3) Wi-Fi

At the moment there isn't a big choice because not all the main boards have the HDMI, necessary to appreciate videos in high definition

We decided to use a ASUS AT3IONT-I Deluxe because it has all the features described before and a power supplier incorporated and, for the people who could feel the need, a remote control with an IR receiver.



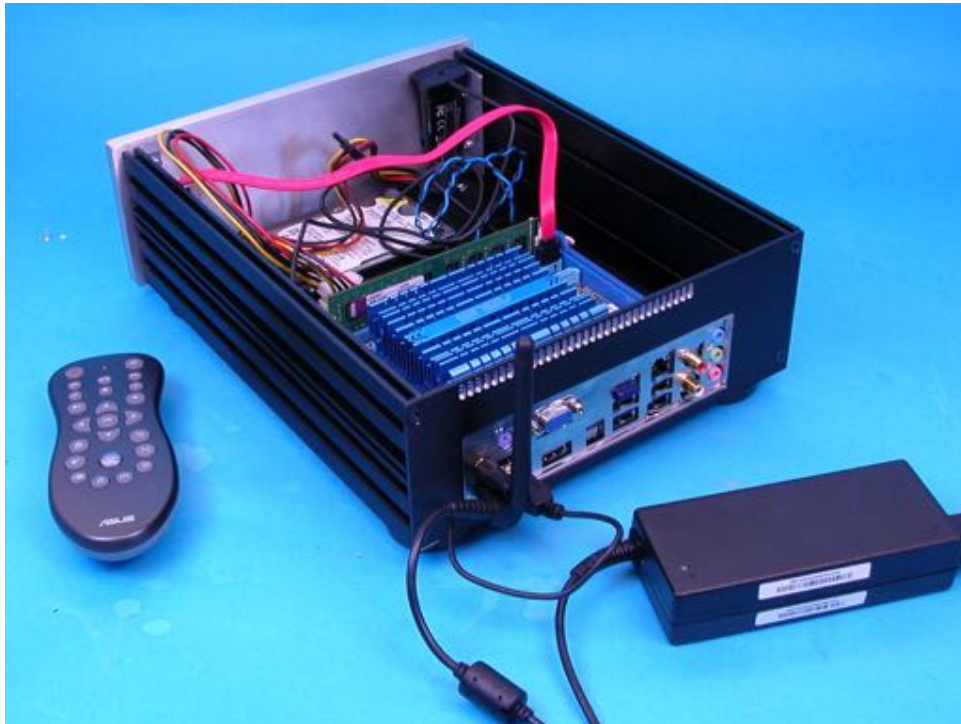
This is the box of the main board we used for this test



Here you can see all the info about the main board



This is our case, completely in aluminium and with many holes in the cover to help the dissipation



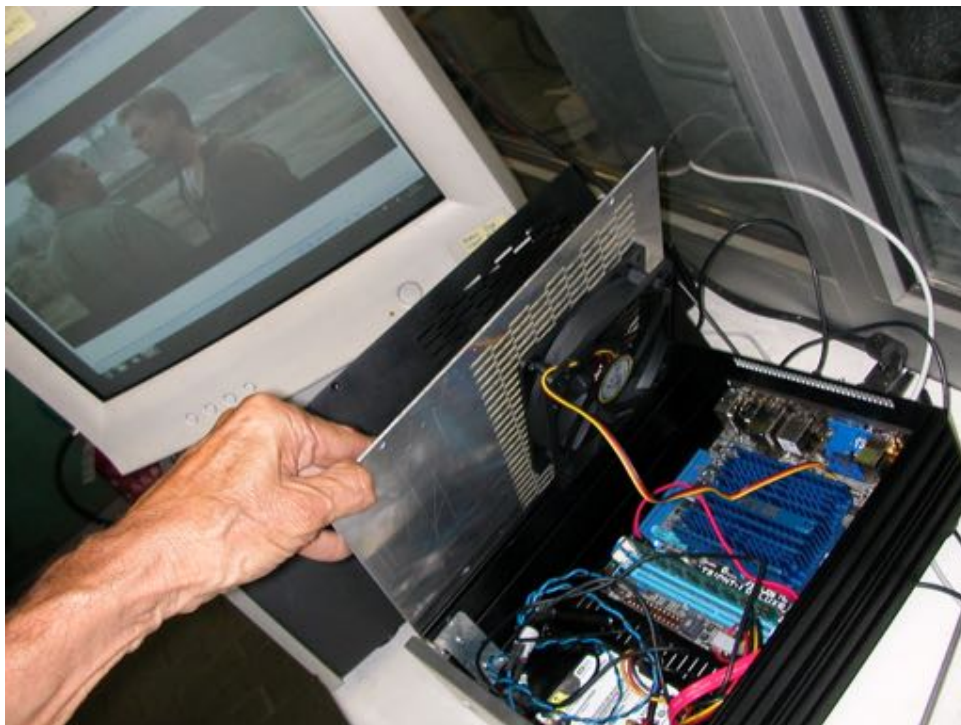
This is the main board inserted in the case with the power supplier and the IR remote control.
If you want to use other not-powered ITX main board, you need to buy a PICO power supplier



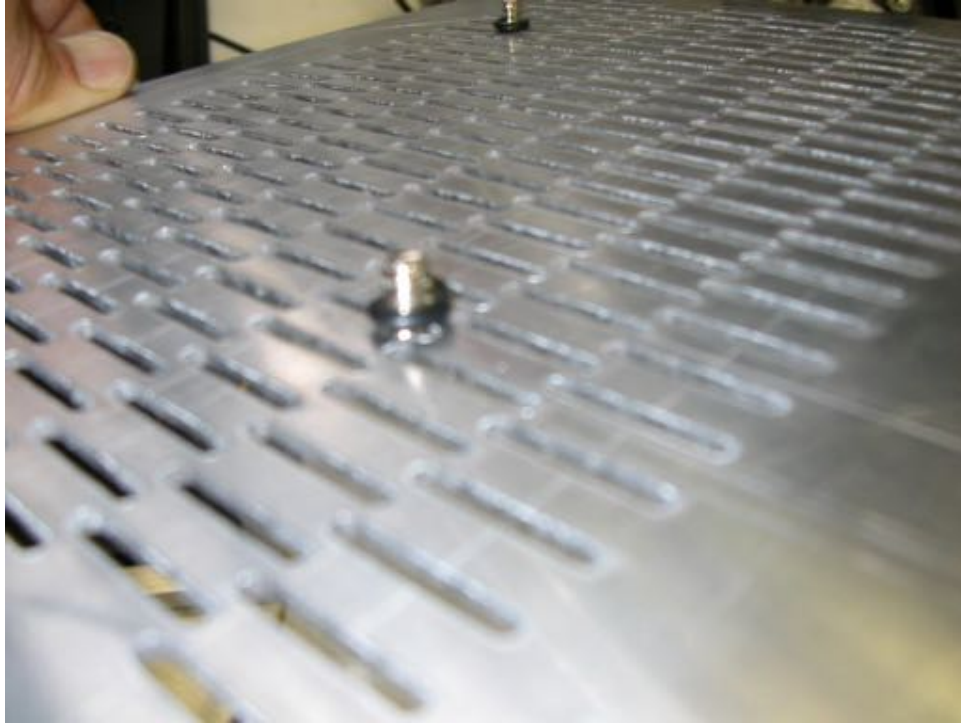
We tried the functioning in the usual conditions for a HTPC: we watched a movie in absolute silence because there wasn't any cooling fan.



After 45 minutes the temperature on the internal heat sink was 59° C and it slowly kept raising up until 69° C after 120 minutes from the beginning of the test and it didn't change for the next 30 minutes.



Once the temperature stabilized around 69° C, even if there wasn't any need during the test, we decided to add a 120mm fan to make sure your HTPC can work well even in places where there isn't too much air like inside furniture. The noise was around 7,5 dB



To lower the noise even more we put some OR on the mounting screws: after 5 minutes the temperature dropped to 45° C

Our experience in building cases for Hi-FIs allowed us to project this mini case Made in Italy with features appropriate for a fanless HTPC

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