



Subject : How to test EMX-H61 Wake on Lan function

Model Name. EMX-H61

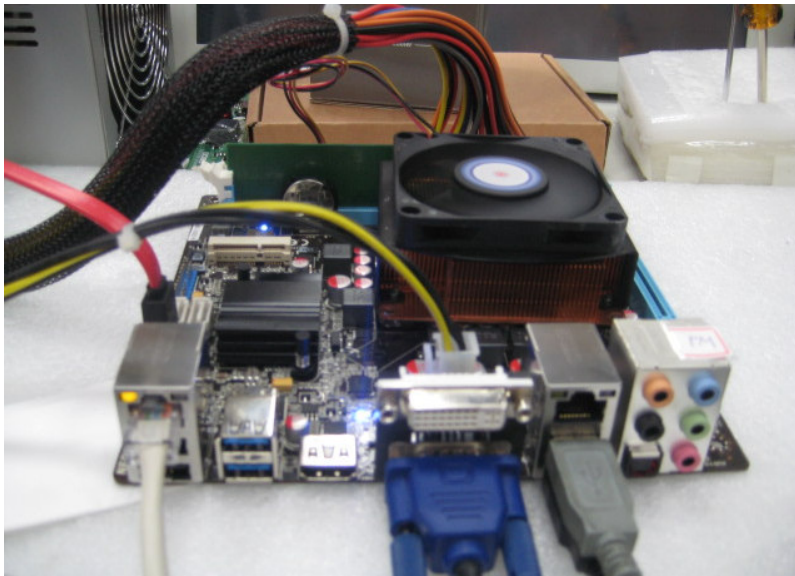
Rev.

Purpose :

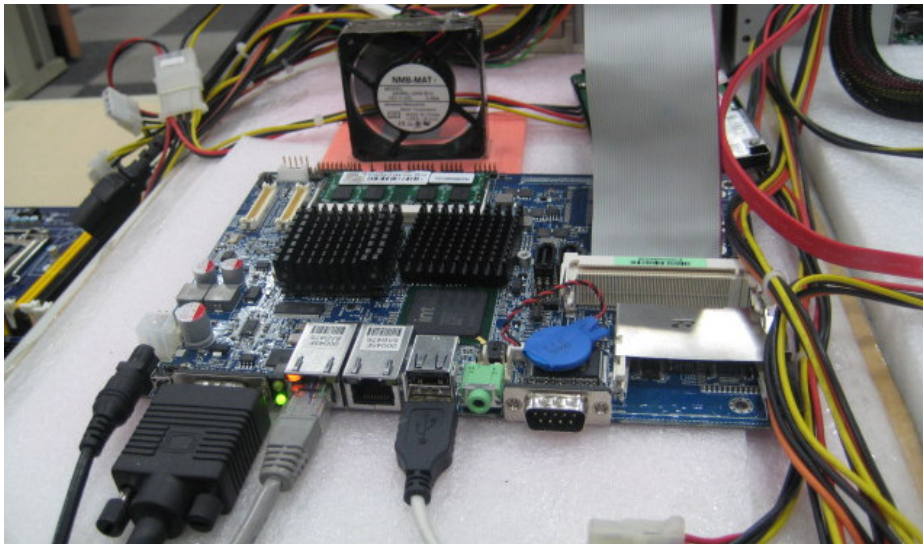
To clarify how to test EMX-H61 Wake on Lan function.

Test Environment and condition :

1. EMX-H61 with windows OS(such as Windows7)



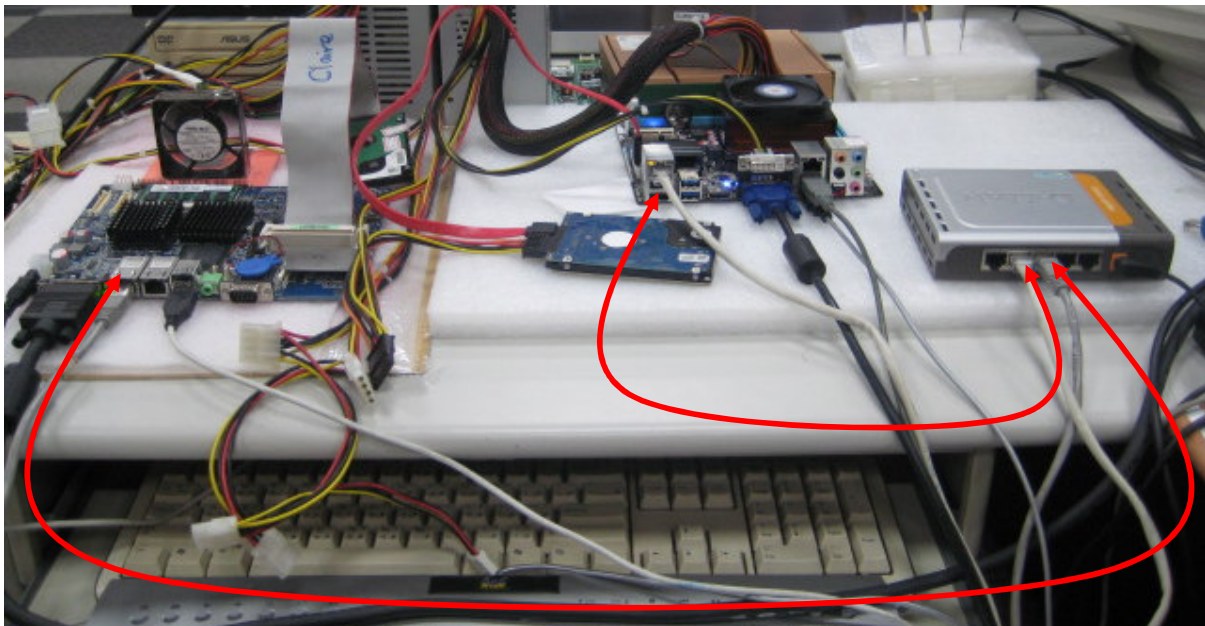
2. The other board for executing Wake on Lan program(such as EBM-945GSE with WindowsXP)



3. Network Hub(such as D-Link Gigabit Switch)



4. Prepare two network cables(Straight-through) to plug into EMX-H61 and EBM-945GSE separately, and the other side of cables plug into network Hub as below.

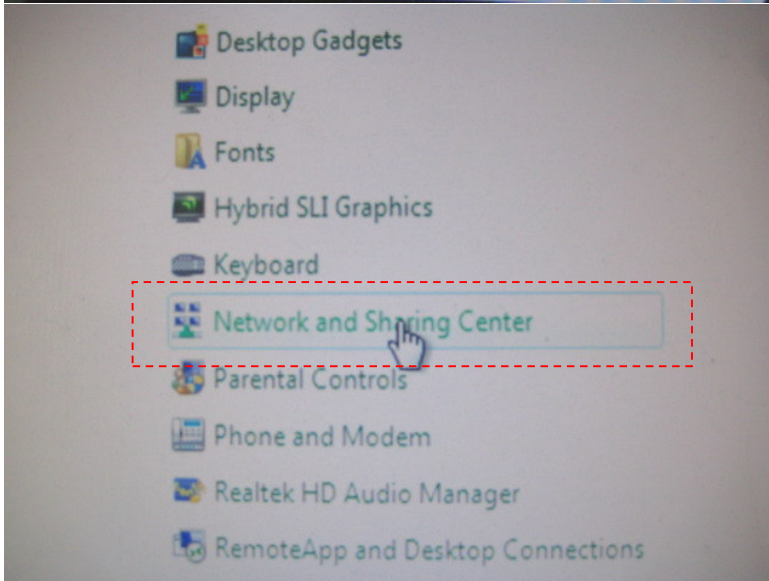
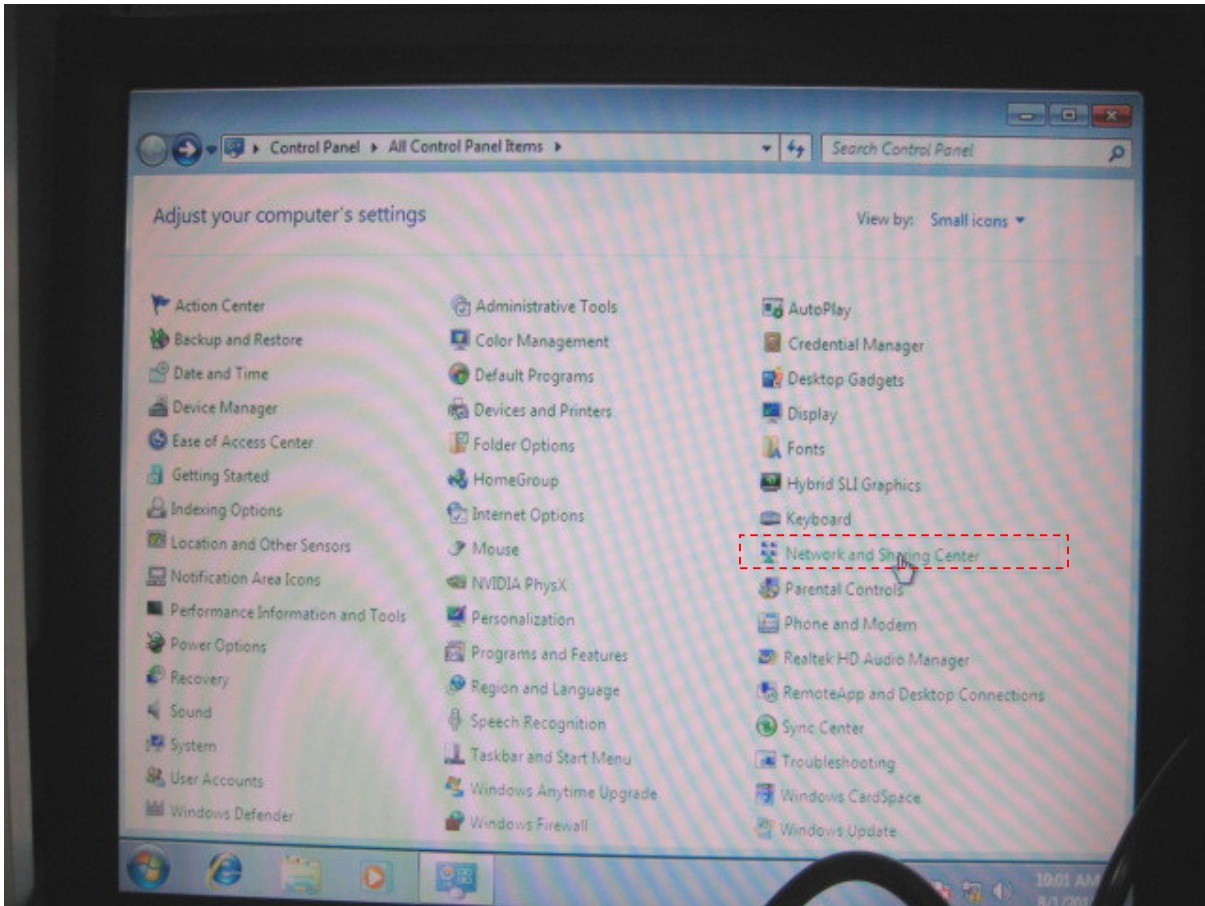


5. Turn them on for starting to test.

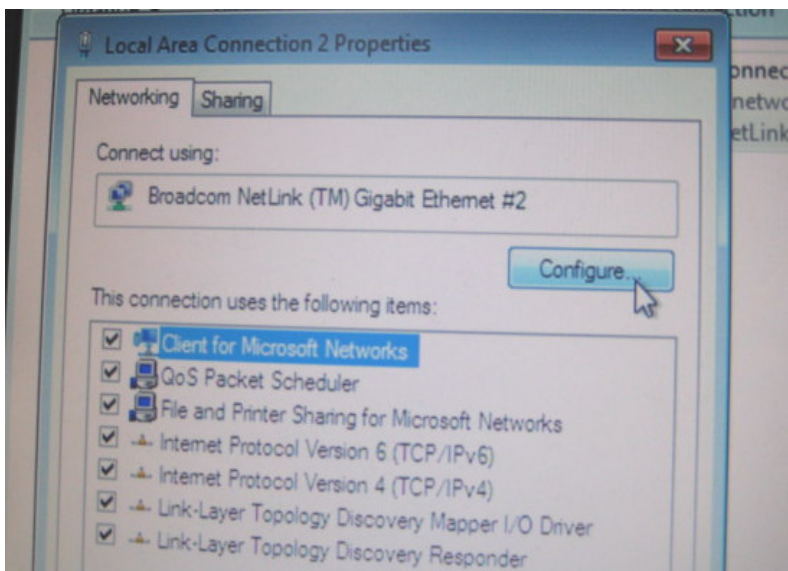
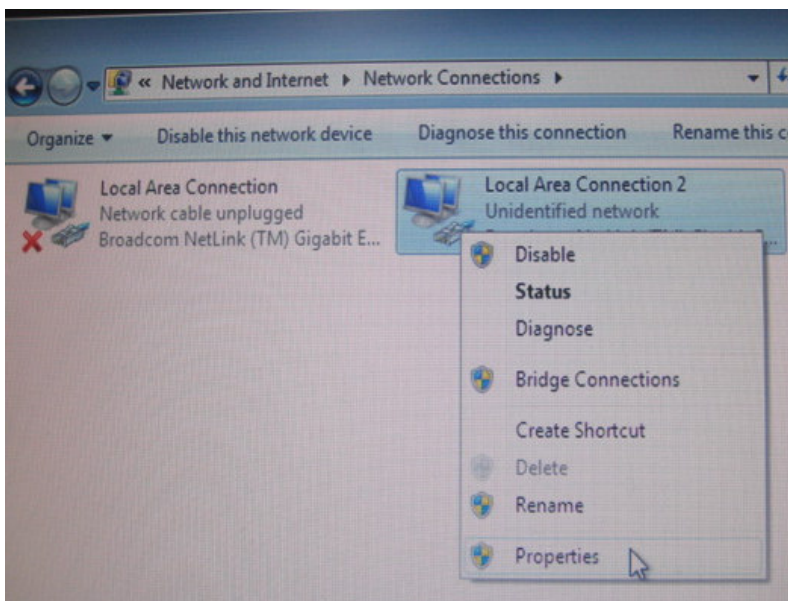
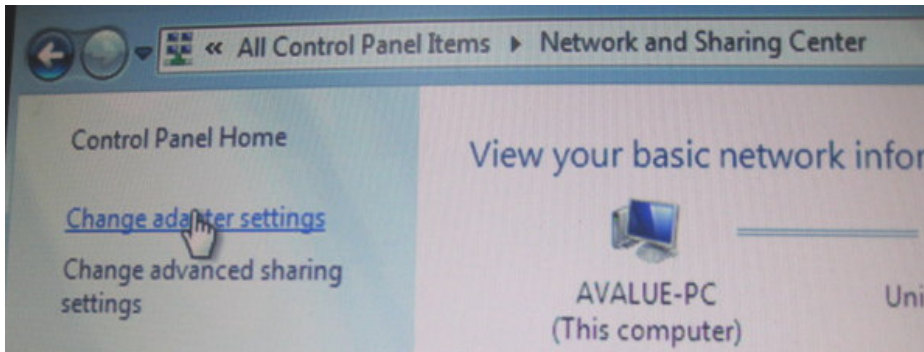


Test Procedure and Results:

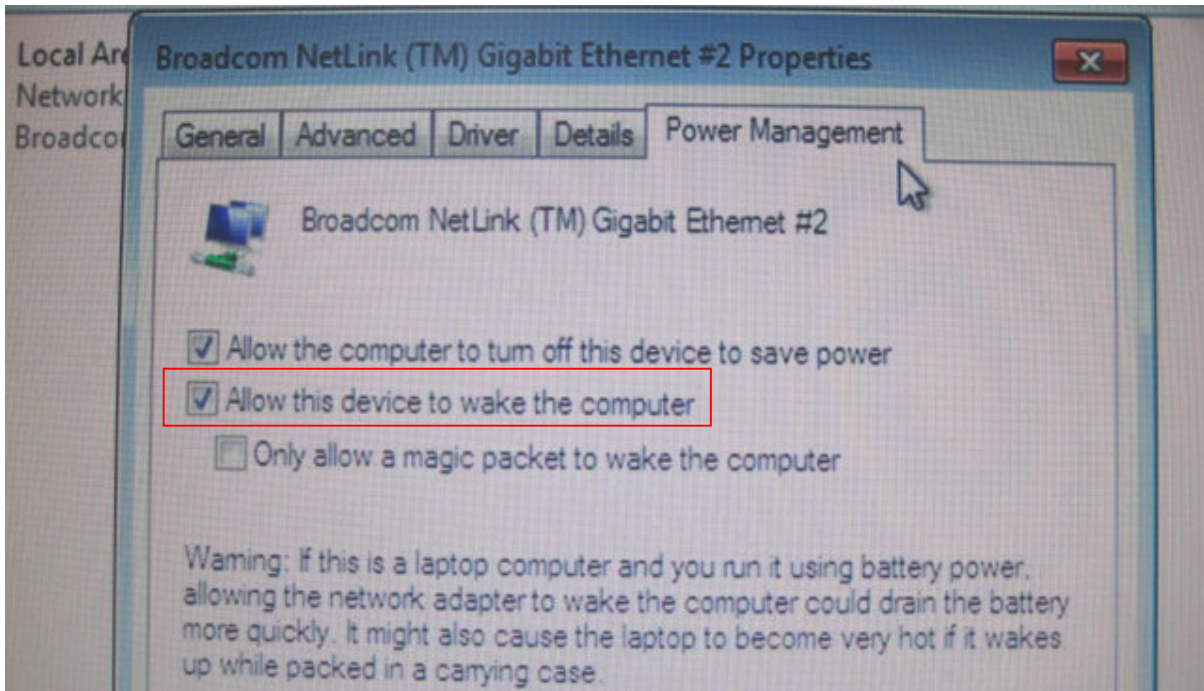
1. Checking some configurations on EMX-H61 with Windows7.
2. Enter into "Control panel" to execute "Network and Sharing Center".



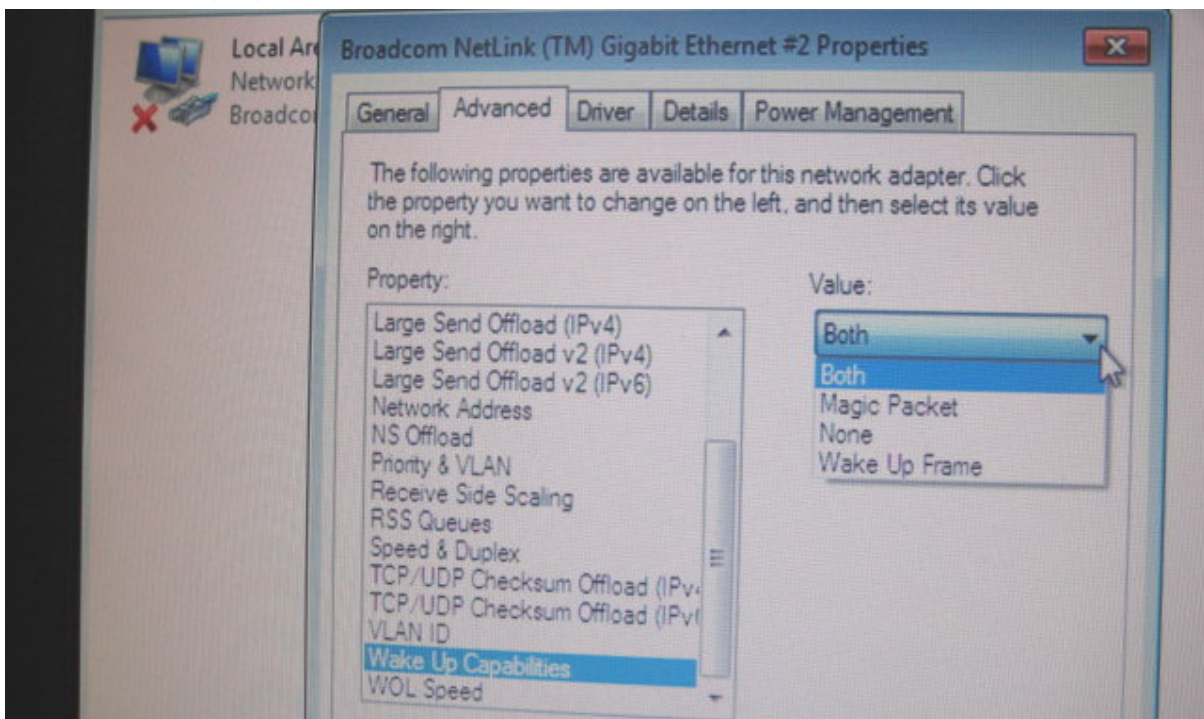
3. Click the “Change adapter setting” for configuring properties of Ethernet connections according the following pictures.



4. Make sure the item “Allow this device to wake the computer” on the “Power Management” has been clicked as below.



5. Make sure the Value is “Both”(default) on the Property item “Wake Up Capabilities” as below .(The property is on the “Advanced”)



6. Now, we have to recognize what Physical Address(MAC address) we access.

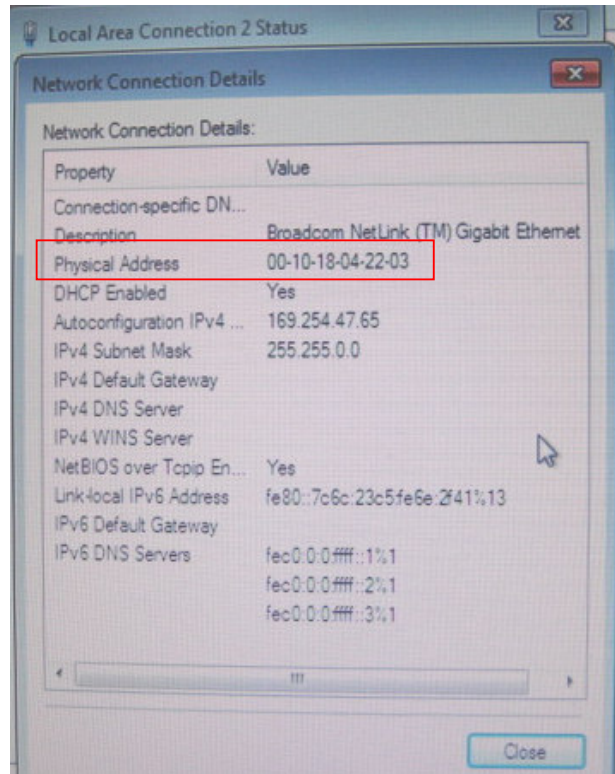
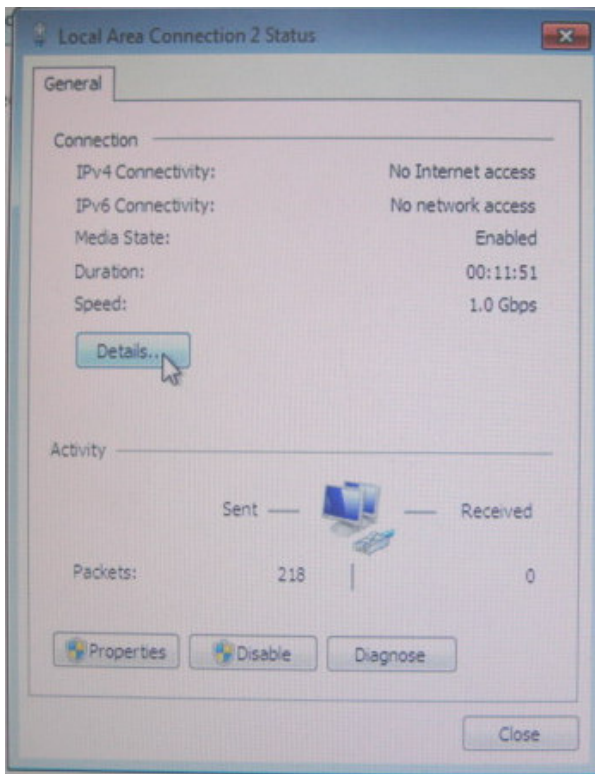
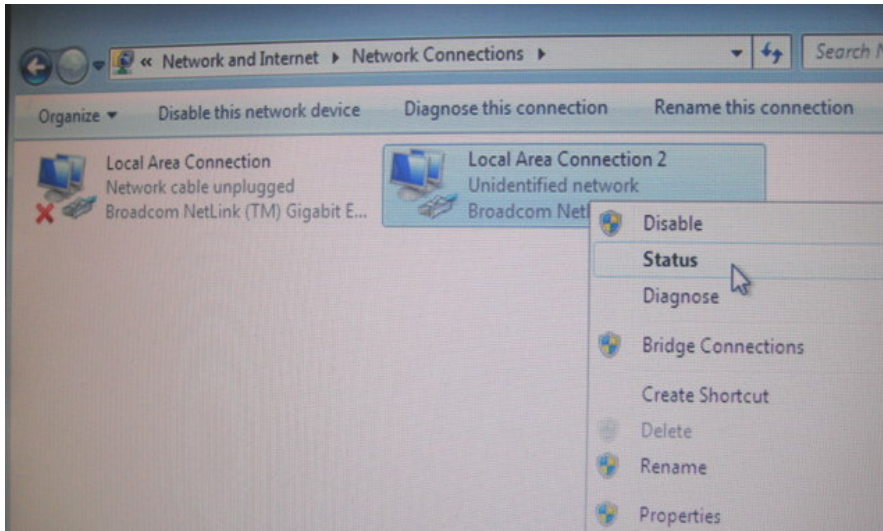
There are three ways to recognize as below.

Way1:Choose “Status” on the Ethernet connection we plug, and then choose “Details...”.

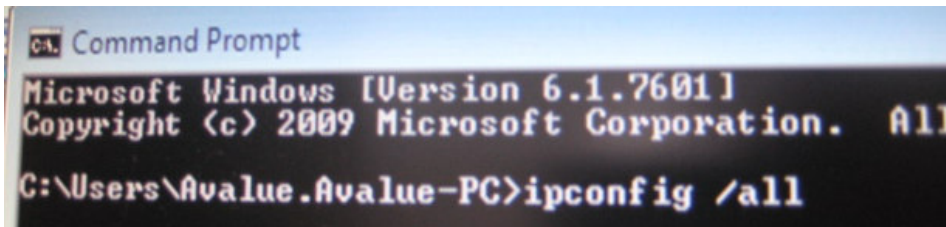
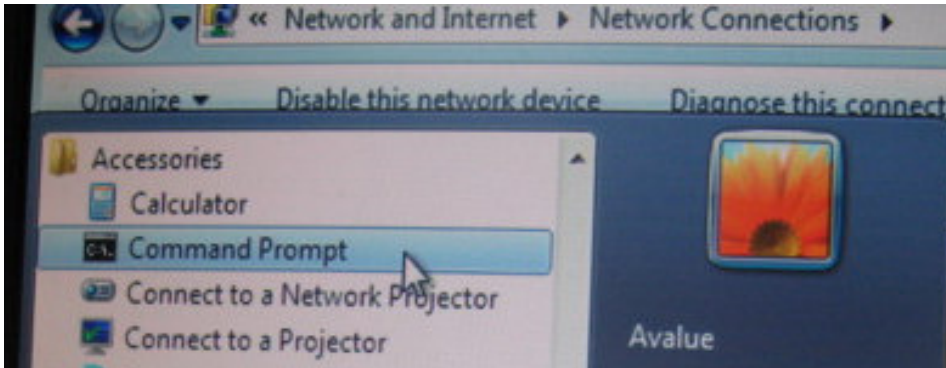
We will see Physical address on the Network Connection Details as below.

For example,

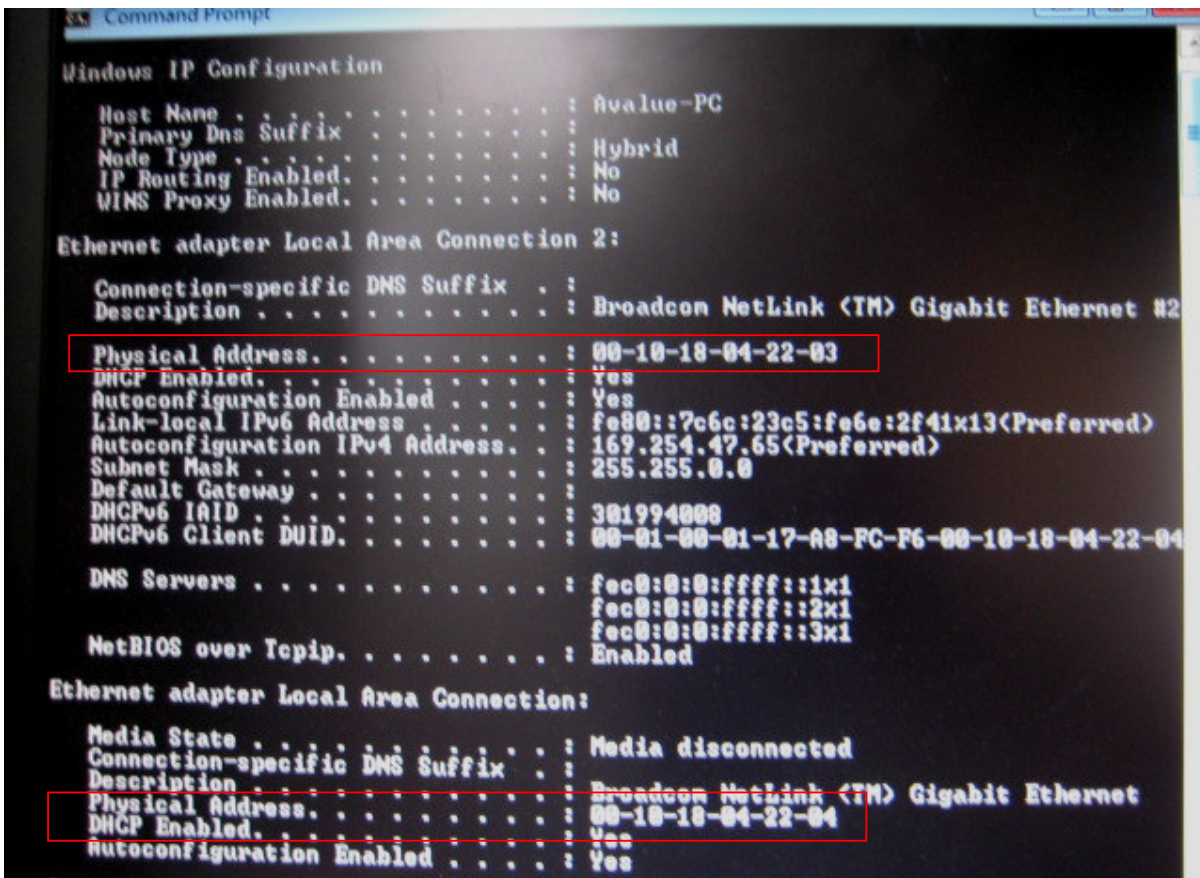
The test EMX-H61 we used has two Ethernet connections, the Physical Address of the connection we plugged is “00-10-18-04-22-03” as below red rectangle.



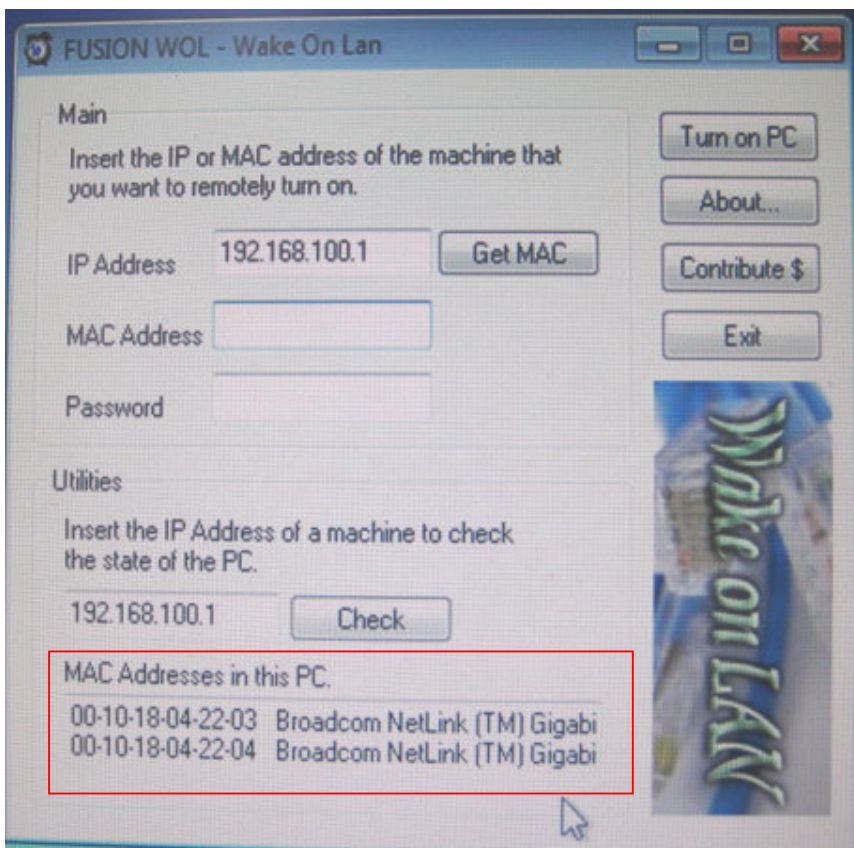
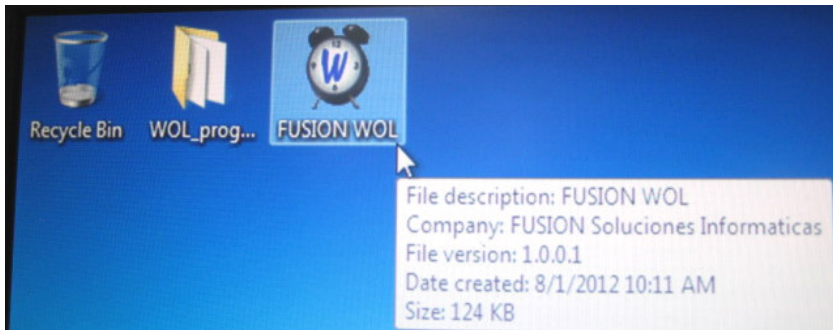
Way2: Execute the “Command Prompt”, and then type “ipconfig /all” to enter for recognize all of network configurations on this board(EMX-H61) as below.



The Physical Address(MAC address) of Ethernet connections were appeared below.

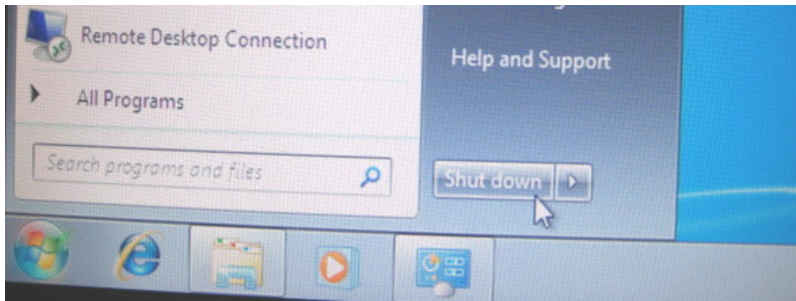


Way3: Execute the Wake on Lan program “FUSION WOL” , and then we will see “MAC Addresses in this PC” on the program bottom as below.

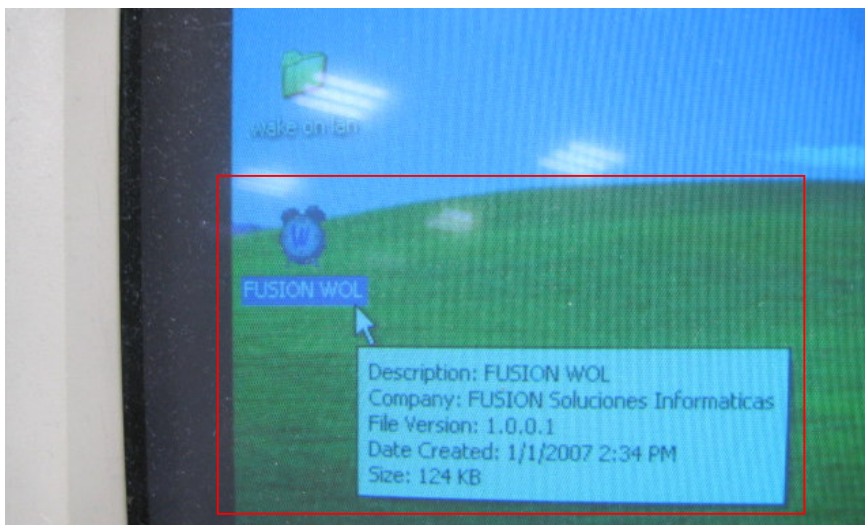


Now, we can implement next step for our test after we recognize the Physical address of Ethernet connection which we used.

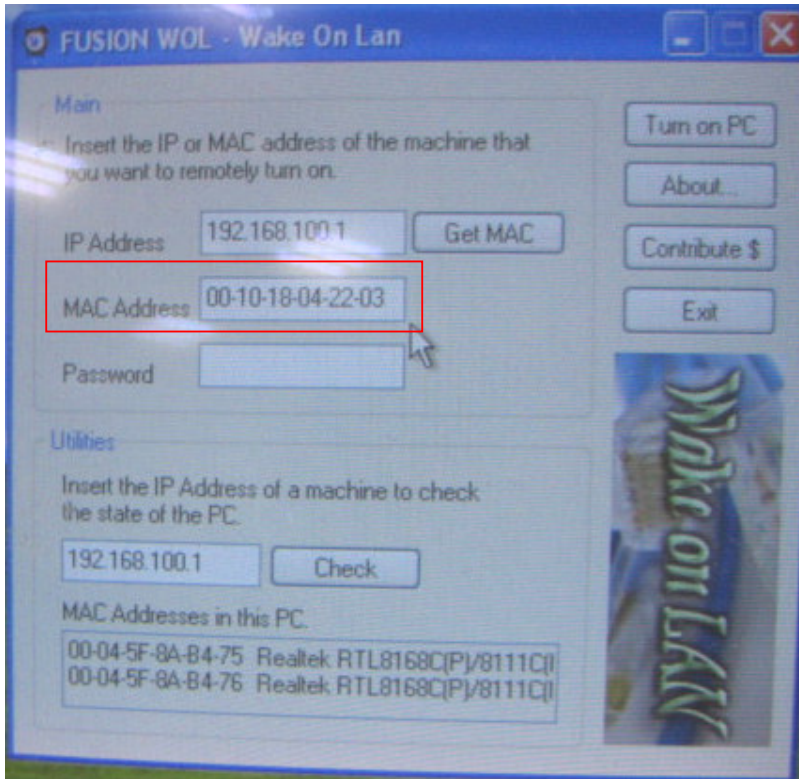
7. Shut down EMX-H61 with Windows7.



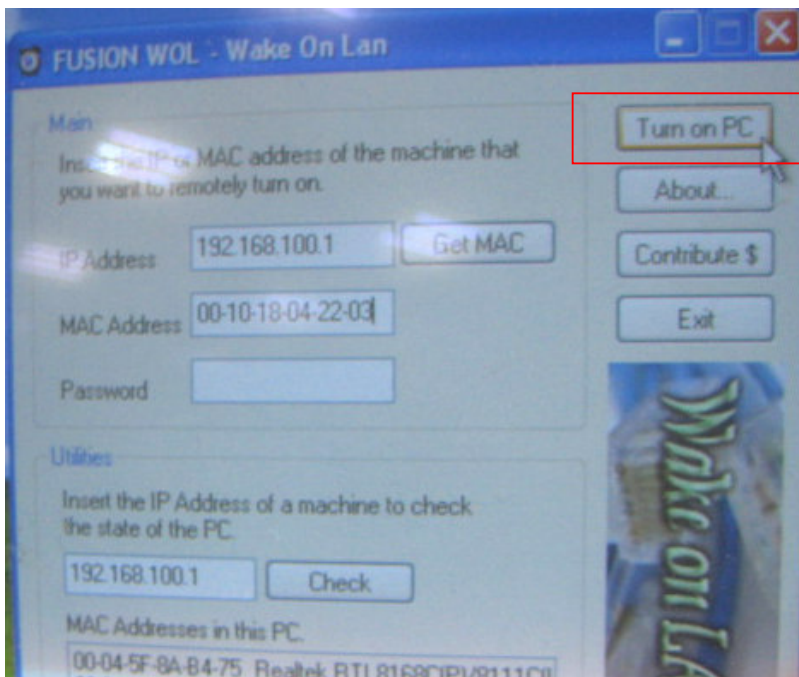
8. Execute the Wake on Lan program "FUSION WOL" on the other board(EBM-945GSE with Windows XP).



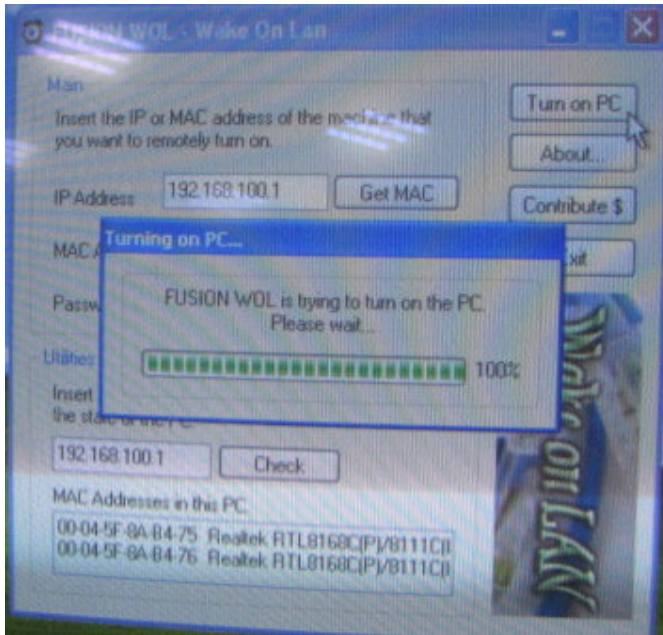
9. Type the Physical Address(MAC Address) of the EMX-H61 Ethernet connection which we used on the “MAC Address” item as below.



10. Execute “Turn on PC”.



11. The program will appear a dialogue box, which description is that
“FUSION WOL is trying to turn on the PC, Please wait...”



12. The EMX-H61 will be woken up by the other board(EBM-945GSE) as below.



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Date :2012/8/1