



To wake up your computer remotely you need to configure it correctly:

- 1) Configure the BIOS of your PC.
- 2) Activate Wake On on your network adapter.
- 3) In case of activating from the internet, in your router you must open the UPD port, usually 9, and have static IP or have DynDNS configured. In case of being behind a firewall you must perform a NAT and create an ARP entry with the MAC address of the equipment in the public interface of the firewall.



## Examples of BIOS configuration

<https://www.asus.com/us/support/FAQ/1006299/>

<http://www.dell.com/support/article/es/es/esbsdt1/sln305365/how-to-setup-wake-on-lan-wol-on-your-dell-system?lang=en>

<https://support.hp.com/in-en/document/c04947950>

**Power Management Setup**

ACPI Suspend Type	[S3]
Remote Wake Up	<b>[Enabled]</b>
AC Recovery	[Power Off]
Auto Power On	[Disabled]
Low Power Mode	[Off]

This image was captured by Vinh Nguyen's iPhone from Vinh Nguyen's computer!

**ASUS UEFI BIOS Utility - Advanced Mode**

Advanced\ APM >

Deep S4	Enabled
Restore AC Power Loss	Power Off
<b>Power On By PCIE/PCI</b>	<b>Enabled</b>
Power On By Ring	Enabled
Power On By RTC	Disabled

Enable or disable the Wake-on-LAN function of all the onboard LAN controllers and installed PCIE LAN devices.

++: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F3: Shortcut

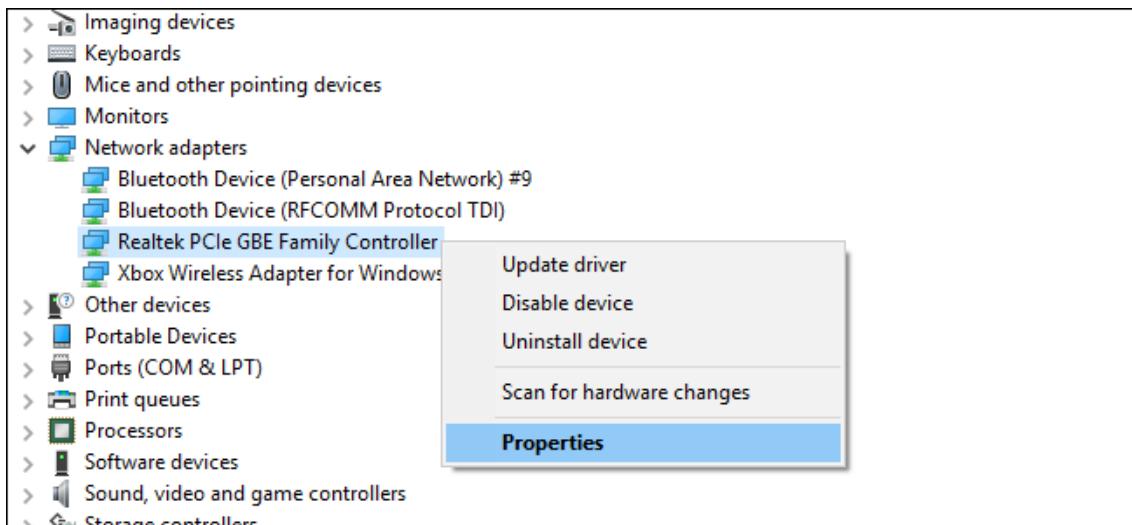


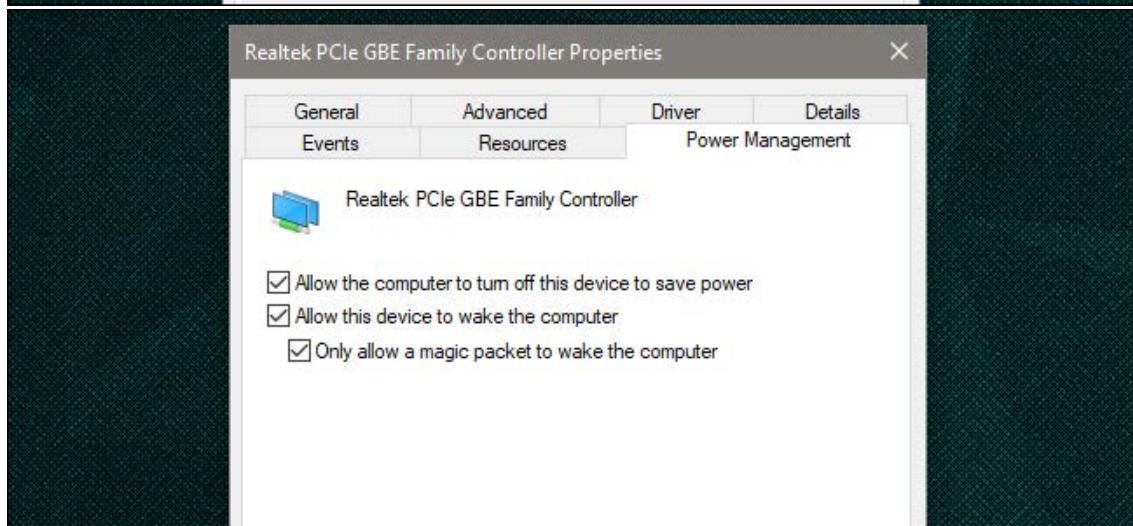
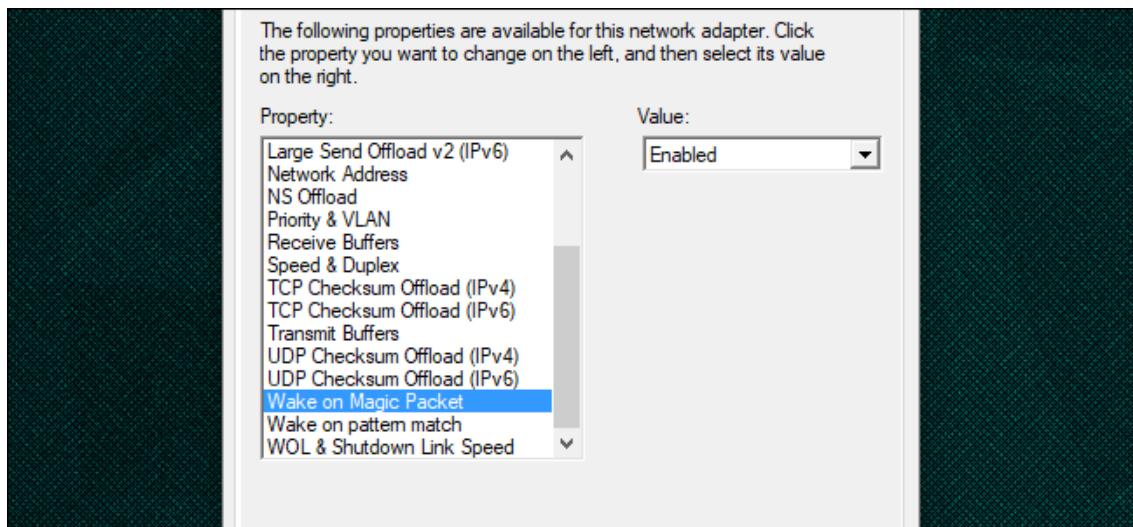
CMOS Setup Utility-Copyright (C) 1984-2009 Award Software		Item Help Menu Level ►
Power Management Setup		
ACPI Suspend Type	[S3(STR)]	
Soft-Off by Power button	[Instant-off]	
USB Wake Up from S3	[Enabled]	
Modem Ring Resume	[Disabled]	
PME Event Wake Up	[Enabled]	
HPET Support <small>(Note)</small>	[Enabled]	
Power On By Mouse	[Disabled]	
Power On By Keyboard	[Disabled]	
x KB Power ON Password	Enter	
AC Back Function	[Soft-Off]	
Power-On by Alarm	[Disabled]	
x Date (of Month)	Everyday	
x Resume Time (hh:mm:ss)	0 : 0 : 0	
BuP Support	[Disabled]	

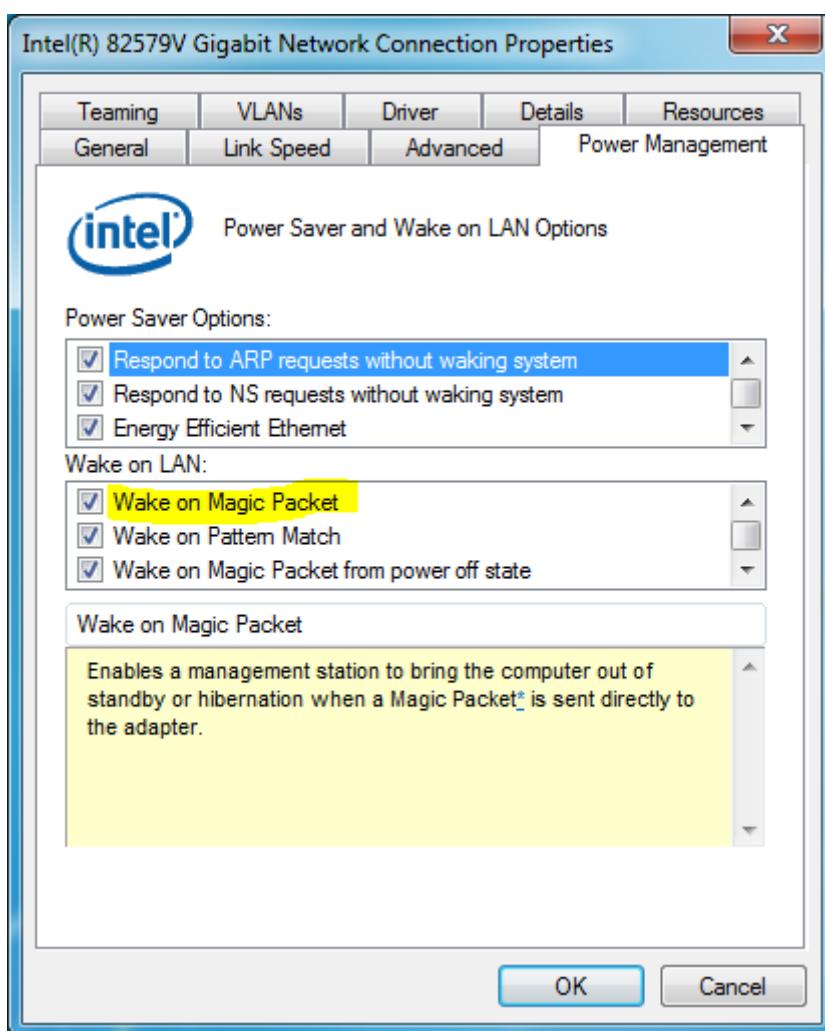
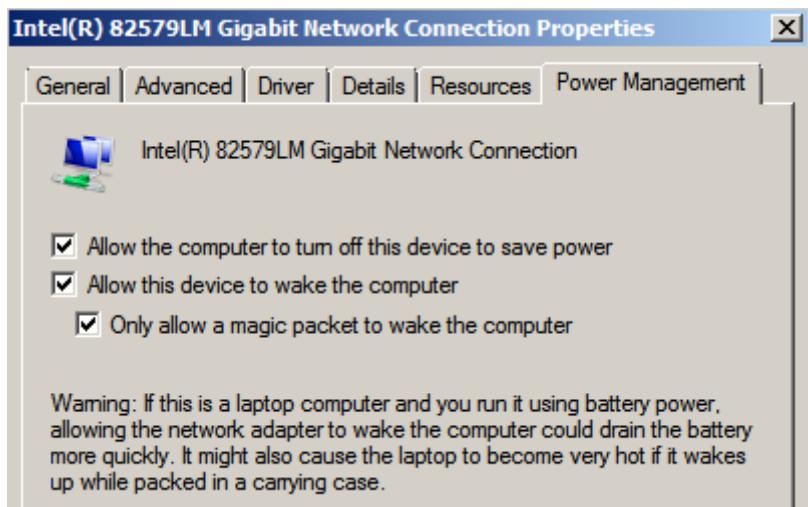


## Windows network adapter configuration examples

[https://www.intel.com/content/www/us/en/support/articles/000006002/boards-and-kits/desktop-boards.html?\\_ga=2.44825700.1371900724.1518364026-2127767416.1518364026](https://www.intel.com/content/www/us/en/support/articles/000006002/boards-and-kits/desktop-boards.html?_ga=2.44825700.1371900724.1518364026-2127767416.1518364026)





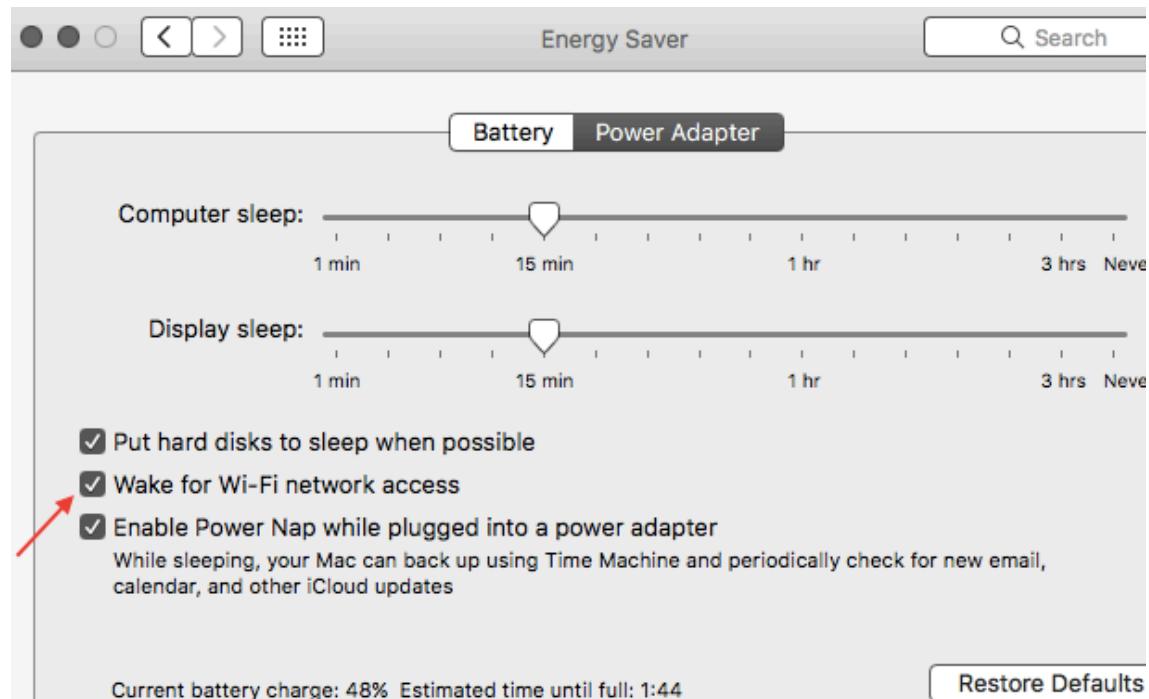




## Apple configuration examples

<https://discussions.apple.com/thread/7687852>

<https://support.apple.com/en-us/HT201960>





## Linux configuration examples

<https://wiki.archlinux.org/index.php/Wake-on-LAN>

<https://help.ubuntu.com/community/WakeOnLan>

<https://www.lisenet.com/2016/set-up-wake-on-lan-wol-on-centos-7/>



## Config Router for Wake On from Internet

### Does Wake-on-LAN via WAN need port forwarding?

Wake-on-LAN normally uses UDP ports 7 and 9.

The packets are sent to the special broadcast address of the LAN, so it will be received by all network-attached hosts, rather than by a specific host.

The MAC address is used to identify the particular host that should "Wake Up"

If the PC is Wake-on-LAN enabled it will be listening for packets on the above ports.

If the magic packet is coming from the internet (WAN) then any firewall must be set up to allow entry of the Wake-on-LAN signal to a specified port, which can be forwarded to the computer to be woken up

Some routers permit the packet to be broadcast to the entire LAN.

Some routers do not support this as they will not forward broadcast packets.

<https://technet.microsoft.com/en-us/library/bb632665.aspx>