

Technical Bulletin – SV Ethernet Ready-On Set-Up Instructions

Ergotron® Ethernet Ready-On Set Up

Ethernet Ready-On Set-Up for Windows 2000/XP/Vista Systems/Windows 7

What is Ethernet Ready-On?

Ethernet Ready-On is an Ergotron feature that allows you to simply press a button to wake up a computer from hibernate mode or turn a computer on without opening the storage compartment.

Requirements

- Computer must be Ethernet Ready-On (Wake On LAN) capable
- Must configure both the BIOS & Network Interface Card to enable Ethernet Ready-On
- The device must have an external power source plugged in (auxiliary battery or AC adapter)
- The device must have a soft power on/off switch that does not disconnect AC power from the computer
- Requires the use of a hard wired Ethernet port; customer connection must be wireless
- The Ergotron Ethernet Ready-On when used on a non-powered notebook cart requires the notebook to be plugged into an AC power source to operate.

NOTE: The Ergotron Ethernet Ready-On may not work on thin client computers such as Wyse Thin Clients. Some thin clients do not support Ethernet Ready-On because their BIOS already supports having the computer wake up based on keyboard inputs that the user can configure such as F1, F2, F3.....F12 or any key or mouse movement.

Wyse has a built in RO feature. This will wake from S4 (hibernate) or S5 (shut down) – user selectable. The Ergotron Ethernet Ready-On cannot override this built in feature.

Before using the Ethernet Ready-On, verify if equipment is Ethernet Ready-On (Wake on LAN) capable or if the computer equipment already has a built in wake sequence in the BIOS.

Computer Software - Magic Packet

Ethernet Ready-On requires a special software program to send a signal to the network card to make it work. Magic Packet is at the heart of Ethernet Ready-On (Wake on LAN). The basic premise is that a specifically formatted packet sent over a network is sent to every network card and identifying features in this packet allow the network card to identify the magic packet it is intended for. All the other cards therefore reject or rather dispose of the packet. This requires a computer to be equipped with a standby power supply with the circuitry to allow remote power control (typically equipped with a feature named APM (Advanced Power Management). Newer computers feature ACPI (Advanced Configuration and Power Interface), which extends the APM concept to allow the OS to selectively control power. ACPI supports a variety of power states, representing different levels of power states.

General guidance for set up of Ethernet Ready-On with Windows 2000/XP/Vista systems

Configuring Ethernet Ready-On - BIOS Settings

The Ethernet Ready-On (Wake On LAN) functionality is generally disabled by default. The option to enable Ethernet Ready-On is different with each computer manufacturer. The most common method adopted across different PC's are as follows:

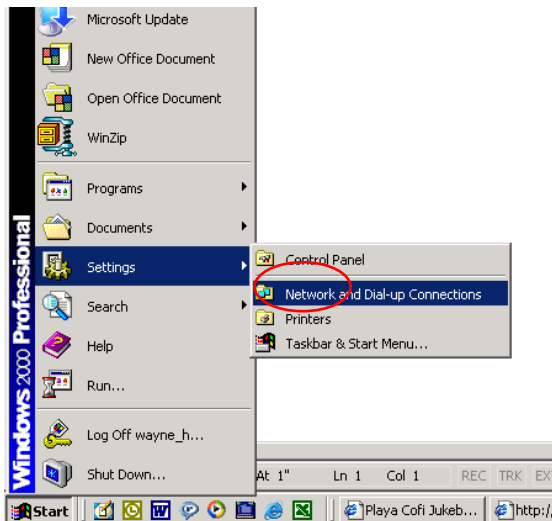
During the computer's power-on self-test enter the BIOS setting screen (see attachment for most common access to various computer manufacturers).

When in the bios mode Select Power Management or equivalent settings. Enable setting related to Wake on LAN on PCI card, LAN, or Network. Click Save and exit the BIOS settings.

NOTEBOOK SET-UP - COMPUTER Settings

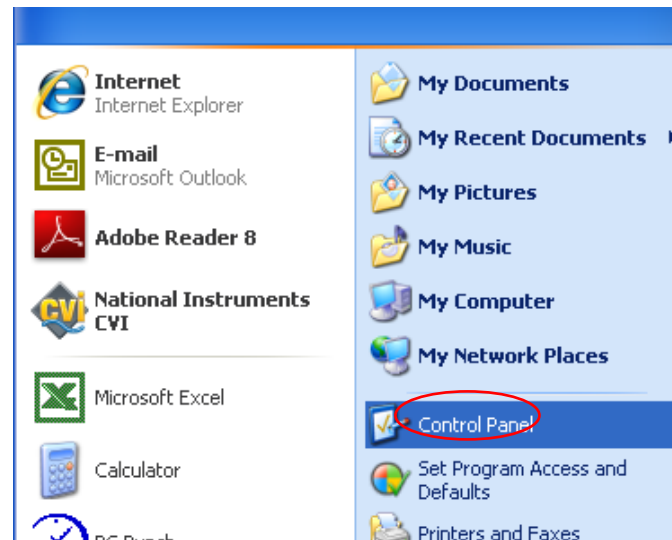
Windows 2000

Turn on the computer and go to the **START** menu. Go to **Settings** and **Network and Dial-up Connections**



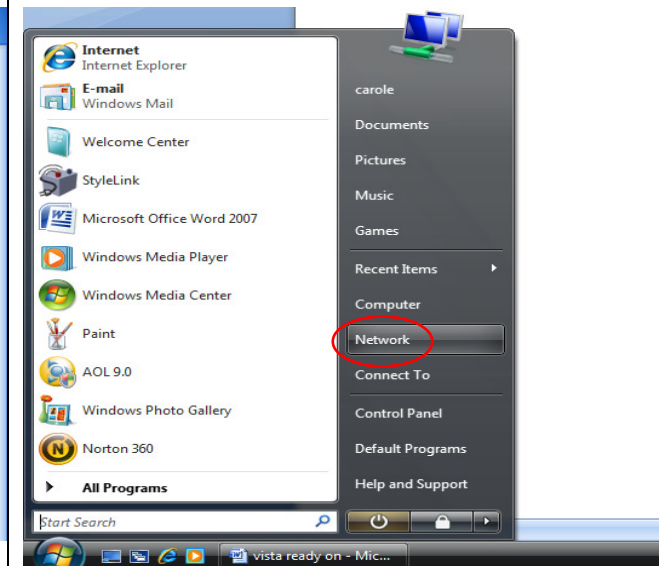
Windows XP

Turn on the notebook and go to the **START** menu and select **Control Panel**

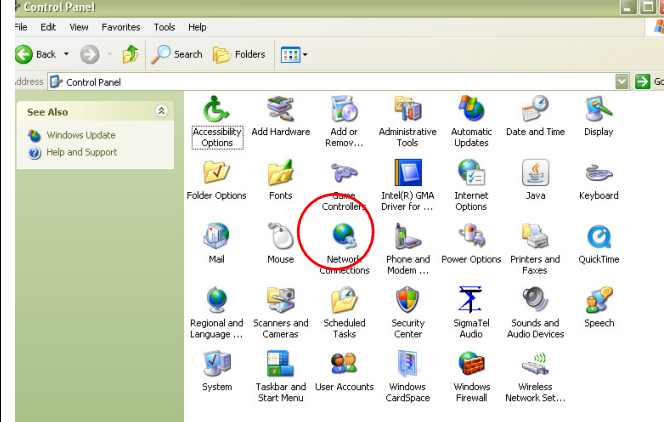


Windows Vista

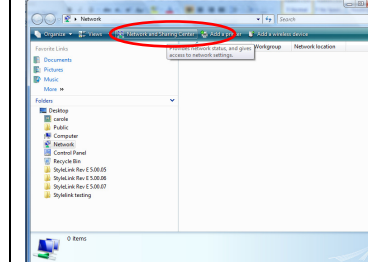
Turn on the computer and go to the **START** menu. Highlight **Network**



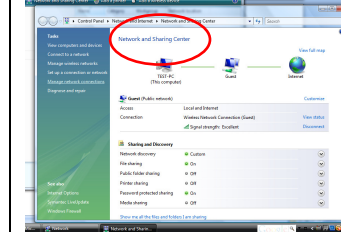
Select **Network Connections**



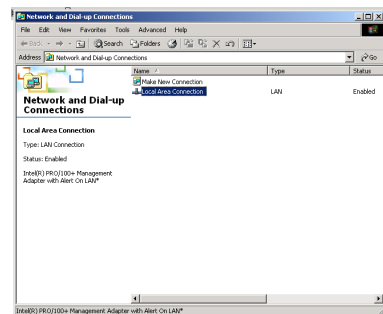
Select **Network and Sharing Center**



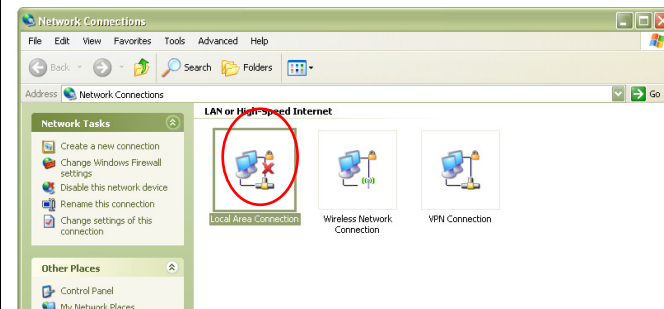
This screen will then pop up



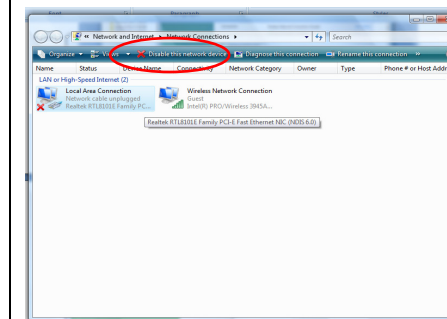
Click on the **Local Area Connection**



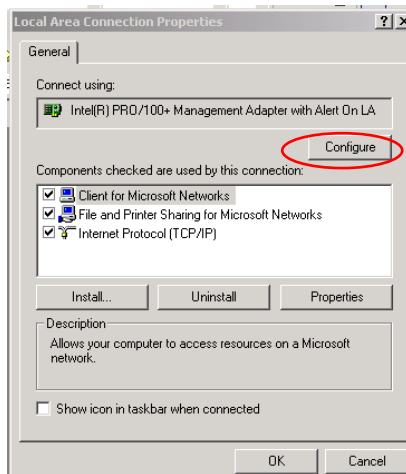
Right click on **Local Area Connection**



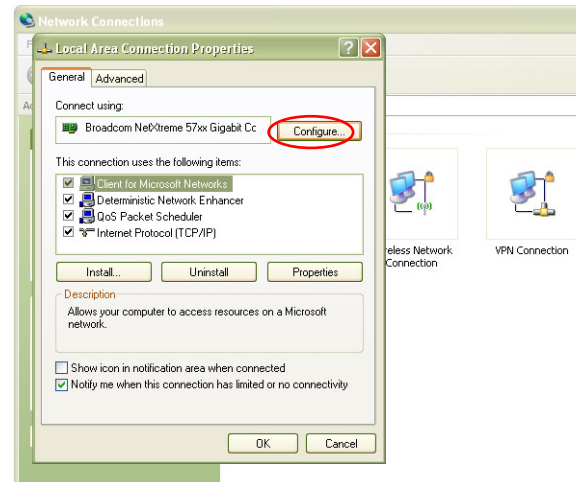
Click on the **Local Area Connection**



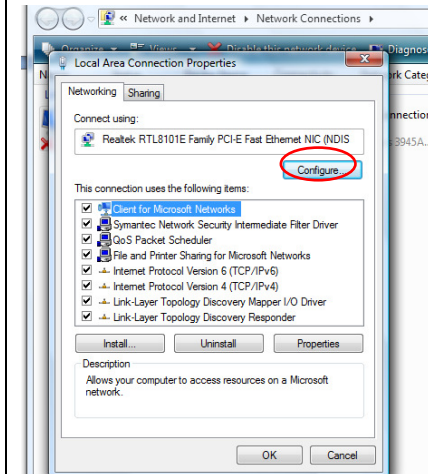
Click on the **Configure** button



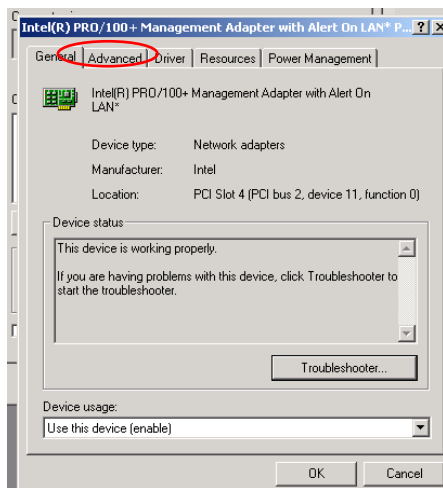
Click on the **Configure** button



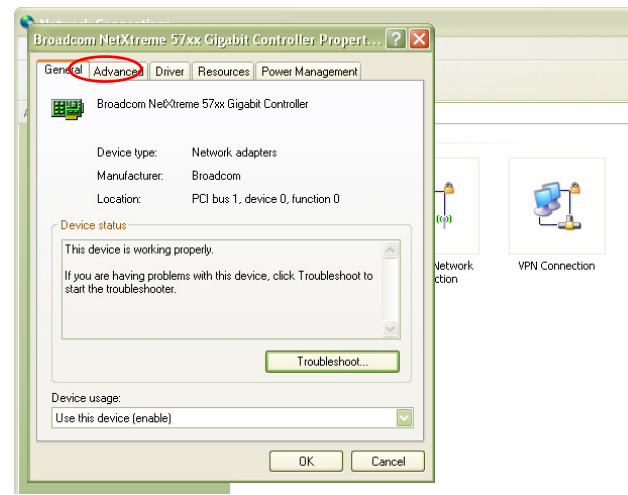
Click on the **Configure** button



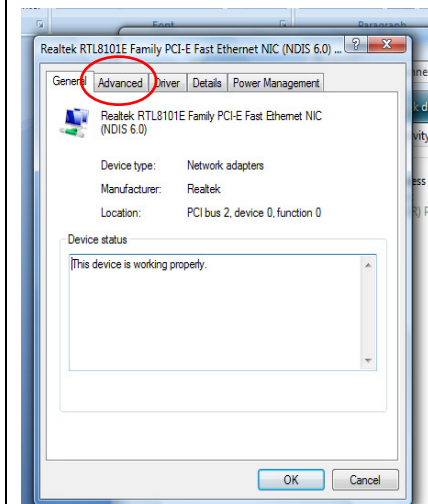
Then click on the **Advance** tab

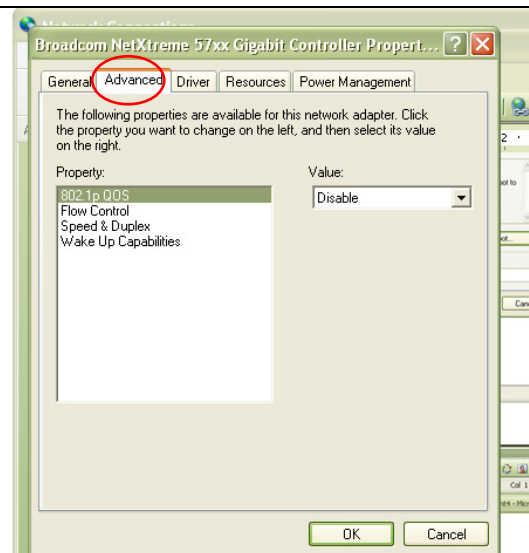
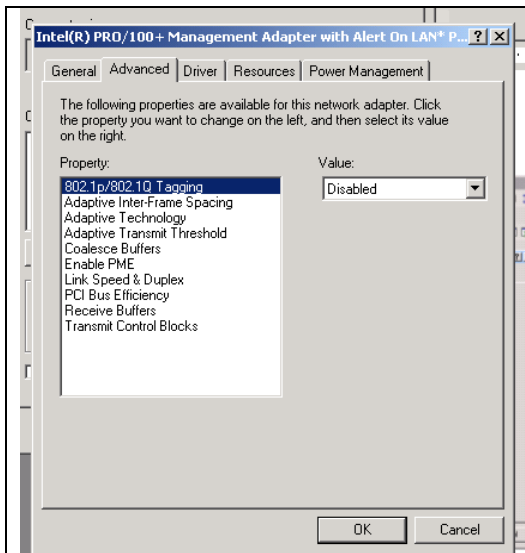


Then click on the **Advance** tab



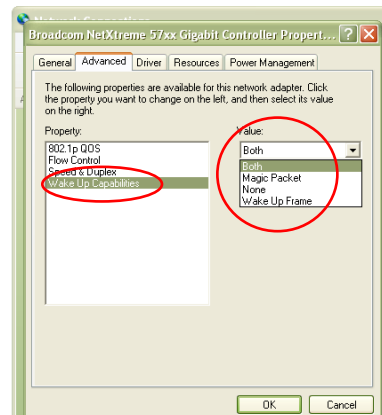
Then click on the **Advance** tab





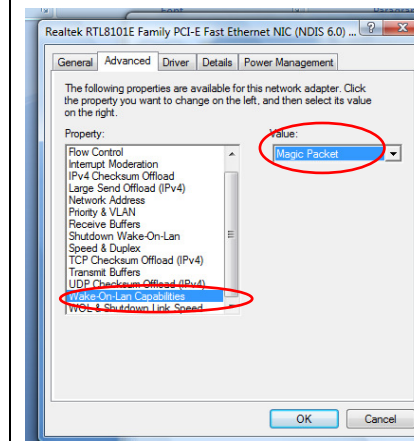
Click on **Wake Up Capabilities**

- make sure the **VALUE:** says **BOTH** or **MAGIC PACKET**

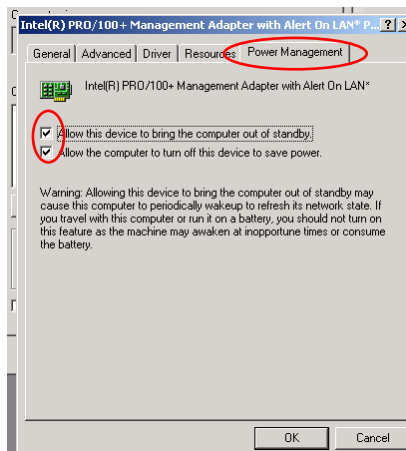


Click on **Wake-On-LAN**

- make sure the **VALUE:** says **MAGIC PACKET**

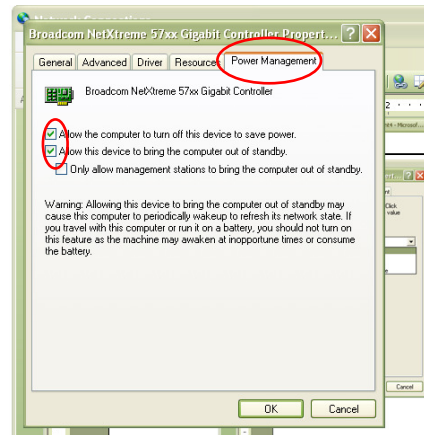


Click on the **Power Management** tab



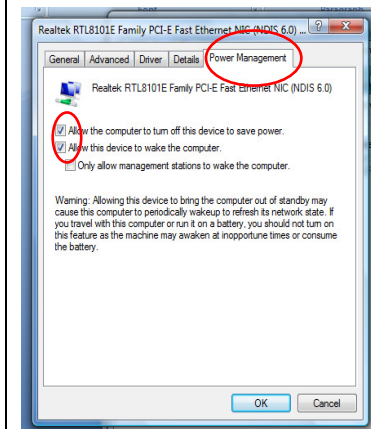
Make sure both boxes are checked
Hit **OK**
Ethernet Ready-On should now be enabled

Click on the **Power Management** tab



Make sure both boxes are checked
Hit **OK**
Ethernet Ready-On should now be enable

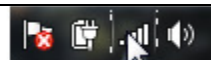
Click on the **Power Management** tab



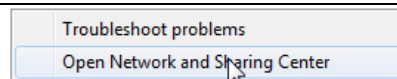
Make sure both boxes are checked
Hit **OK**
Ethernet Ready-On should now be enabled

Windows 7 Set up

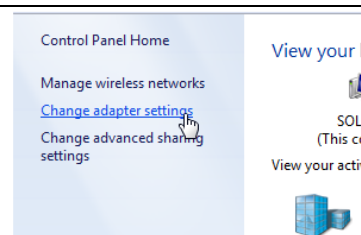
Click the **Connection Icon** on the right hand side bottom navigation bar.

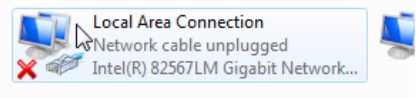
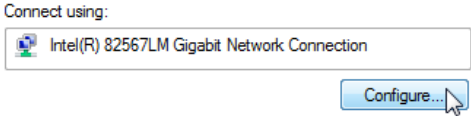
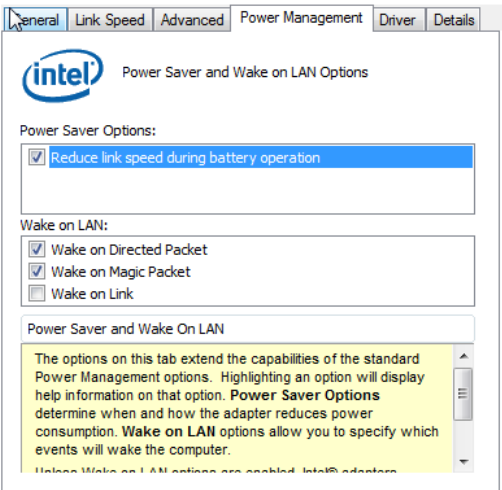


Click **Open Network & Sharing Center**.



Click **Change Adapter Settings**.



Double click on the Local Area Network Connection icon.	
Click on Configure	
Select Power Management , tick ' Wake on Magic Packet ' and tick ' Wake on Pattern Match ' Click OK	

Now that computer is enabled for Ethernet Ready-On, it is time to configure the Ethernet Ready-On itself.

- Make sure that the Ethernet cross-over cable is connected in the back of the computer.
- Hold down the Ready-On button for at least 15 seconds and then release.
- After the button is released the "network cable is unplugged" icon will disappear for a few seconds while the Ethernet Ready-On is querying the computer for its unique hardware address. The icon will reappear when the RO has finished. This unique address is stored on the chip of the RO and it is now configured for wake up.

To verify this is working correctly, turn off your computer. Press the Ready-On button 1 time. The system should start up.