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# Soyntec<sup>®</sup>

## NEXOOS<sup>™</sup> 200

Fast Ethernet 10/100Mb PCI Network Interface Card

## User Manual

### Introduction

Soyntec thanks you for purchasing your new Nexoos 200 Fast Ethernet card. We wish you enjoy using it.

Nexoos 200 is a Fast Ethernet 10/100Mb network interface card for PCI bus for connecting a single computer to a Ethernet network at 10 Mbps or to a Fast Ethernet network at 100 Mbps by a twisted pair cable with RJ-45 type connectors.

We suggest reading this user manual for enjoying this product is a safe way and with the best performance.

### Main features

- 10/100Mbps Half/Full Duplex RJ-45 port with automatic speed selection.
- Compatibility and reliability assured by the Realtek integrated circuit.
- Maximum throughput thanks to its Bus Master architecture that also requires less CPU work.
- PCI v.2.1/2.2 compatible.
- Allows monitoring the connection state by means of one link / transmission led.
- Ready for ACPI power management with PCI 2.1 and 2.2.
- Socket for Boot Rom (optional).

### Product contents

- Fast Ethernet 10/100Mb network interface card.
- CD with drivers and user manual in spanish, english and italian.

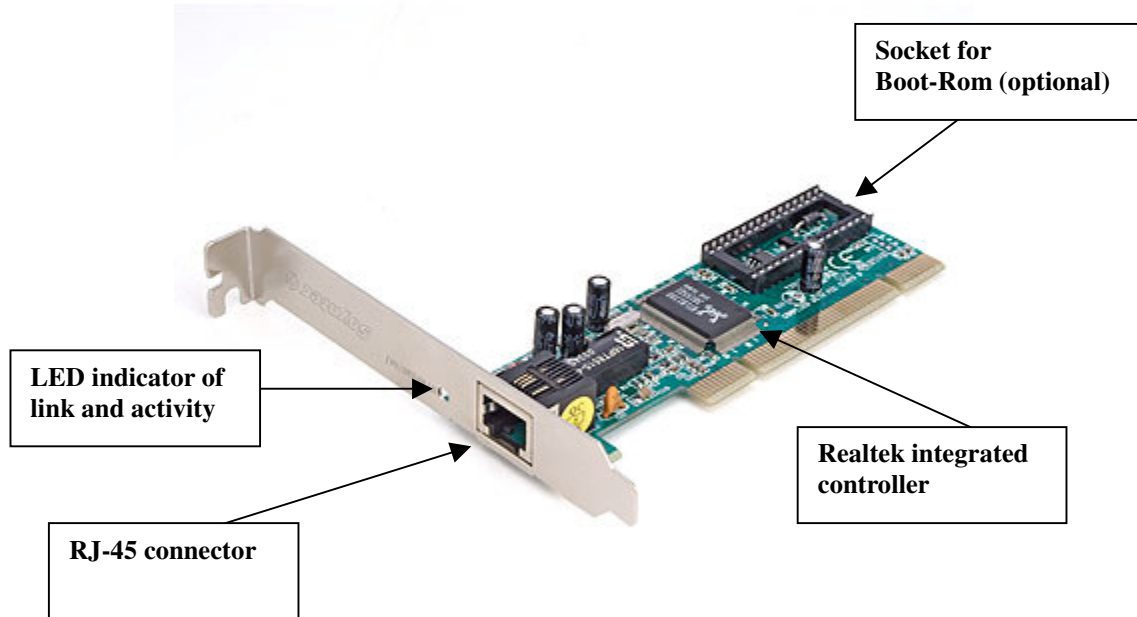
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## Product overview

The following picture shows the main parts of the network card:



**Figure A: Network card main parts**

The meaning of the LED indicator is explained in the following table:

<b>LED</b>	<b>Estado</b>	<b>Descripción</b>
<b>10/100</b> <b>[Link/Act.]</b>	On	Link established
	Flashing	Data transmission

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## Network card installation

Please note that in order to install the Nexoos 200 network card you need a free PCI slot in the computer motherboard.

Follow these steps to install the network card:

1. Make sure that the computer is disconnected and that there is not supply voltage for avoiding harm to the computer and network card.
2. Disassemble the computer case and identify a free PCI slot.
3. Make sure that you are free of any static electricity and do not use any magnetic tool. Avoid touching any contact point, memory or integrated circuit of the computer or network card.
4. Remove the exterior protective plate of the free PCI slot and insert the network card carefully.
5. Check that after inserting the network card, all the computer components remain correctly inserted and placed.
6. Assemble the computer case and connect all needed cables.
7. Switch on the computer and wait until the Operating System finish booting.
8. Recent Operating Systems do include compatible drivers for the Realtek integrated controller the Nexoos 200 network card as built-in and usually the installation is automatic. In some cases the Operating System will show an installation wizard asking for drivers. Insert the provided drivers CD and indicate the folder with the appropriate drivers for the particular Operating System.
9. Install and configure the network clients and protocols accordingly with the other devices that constitute the network.

## Network connection

Make sure that you have the appropriate cable for avoiding data loss. Fast Ethernet connections (100Mbps) do require CAT 5 or up twisted pair cable. For Ethernet connections (10Mbps) you can use CAT 3, 4, 5 or up cable.

Maximum cable length is 100 meters from network card to hub or switch.

Follow these instructions to establish a network connection:

1. Make sure that the computer is powered off for avoiding harm to the computer and network card.
2. Connect the RJ-45 connector from one of the ends of the twisted pair cable to the female connector of the Nexoos 200 network card. The RJ-45 connector of the other cable end will be connected to an Ethernet hub or switch.
3. You could connect two computers directly with a “crossed” twisted pair cable, as long as the other computer also has a Ethernet or Fast Ethernet network card (or motherboard integrated network controller) with a female RJ-45 connector.

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Both Half Duplex and Full Duplex connections are supported, depending if the network infrastructure and network devices configuration allow or not allow data transmission and reception simultaneously.

Connection speed and Half/Full Duplex mode are automatically selected, in a way that the data connection takes maximum advantage from the cable and connected devices characteristics.

## Technical specifications

Standards:	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-TX Fast Ethernet ANSI/IEEE Std 802.3 N-Way Auto-Negotiation
Access Method:	CSMA/CD
Media: 10 BASE-T: 100 BASE-TX:	Twisted-pair UTP/STP Cat. 3,4,5 or up Twisted-pair UTP/STP Cat. 5 or up
System Clock:	Up to 33MHz
Host data bus architecture:	32-bit Bus Mastering
I/O Address:	Automatically determined
Interrupt level:	INT A, mapping to BIOS IRQ setup
Power Management:	ACPI & PCI support
LED indicator:	Link and transmission
Temperature:	Operating: 5°C~55°C Storage: 0°C~65°C
Humidity:	Operating: 10%~90% Storage: 5%~90%
EMI conformance:	FCC, CE

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## **Federal Communications Commission Frequency Interference Statement**

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions in this manual, may cause interference to radio communications.

This equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of the FCC rules, which are designed to provide reasonable protection against radio interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interference.

### **CE Declaration of conformity**

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE and EN 50082-1. This meets the essential protection requirements of the European Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

### **Trademarks**

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