# Obsonet – Quick Guide

The ObsoNET is the first network card built for MSX. In 2004, hardware designer Daniel Berdugo and software developer Nestor Soriano (Konamiman) joined forces to connect their MSX to the Internet.

The cartridge is based on the Realtek RTL8019AS chip and uses flash memory to store a BIOS that allows the use of network commands from the MSXDOS operating system. An EPROM stores basic configuration data for the RTL8019AS chip, and an RJ-45 connector is used to connect a network cable to your MSX.

## Requirements

The following items provide a list of requirements for using Obsonet on your MSX:

1. An MSX computer with at least 128K RAM MAPPER
2. MSX-DOS 1, 2, or Nextor
3. The appropriate variant of INL.COM, the InterNestor Lite installation and control program
4. If you are running MSX-DOS 1: MSR.COM (to install mapper support routines and a UNAPI RAM helper). If you are running MSX-DOS 2 or Nextor: RAMHELPR.COM (installs a UNAPI RAM helper)

The files required to load the TCP/IP stack and the UNAPI ram helper can be obtained from <http://tinyurl.com/e9f845bb>

## Installing and activating the TCP/IP stack

To use your Obsonet with TCP/IP you need to run a set of scripted commands. These commands can be run from a floppy disk, SDMapper, Carnivore2, MSXUSB, or any other device that allows you to execute commands in an MSX-DOS session.

1. Install the RAM UNAPI helper or the mapper + RAM UNAPI help pack support routines, with "RAMHELPR I" or "MSR I", if you are using MSX-DOS 1.
2. Install InterNestor Lite with "INL2 I". Note that there are two versions in the package. INL.COM and INL2.COM, INL2.COM has a fix to enable better compatibility with more DHCP servers.

Tip: You can combine the above steps and simply run "RAMHELPR I INL 2 I" or "MSR I INL 2 I ".

## Configuring IP addresses

If there is a DHCP server on your network (which is the most common case when using the operators' Internet access router), you don't need to configure anything, as Internestor (INL) will get all TCP/IP settings automatically.

If you want to configure manually, you must run the following commands:

Inl2 ip d 0

Inl2 ip l <endereço IP>

Inl2 ip m <subnet>

Inl2 ip g <default gateway endereço IP>

Inl2 ip p <primary endereço IP do servidor DNS>

Inl2 ip <secondary DNS server ip endereço IP>

The first command, inl ip d 0, disables the InterNestor DHCP client, to allow manual configuration even on a network with the presence of a DHP server.

Alternatively, to run these commands sequentially, you can create a BAT or text file containing them (minus the inl at the beginning of each line) called INL. CFG in the same directory as INL2.COM. In this way, InterNestor will read the file and apply the settings from the moment of installation.

Watch the video available at<https://www.youtube.com/watch?v=Ph_3VFheo2I> to follow these initial steps and learn a little more about the Obsonet card.

More information about the card and usage:

* InterNestor Lite – Architecture and Limitations - <https://github.com/Konamiman/MSX/blob/master/SRC/INL/DOCS/architecture.md#internestor-lite---architecture-and-limitations>
* InterNestor Lite – Configuration - <https://github.com/Konamiman/MSX/blob/master/SRC/INL/DOCS/configuration.md>
* InterNestor Lite – Referência dos Comandos - <https://github.com/Konamiman/MSX/blob/master/SRC/INL/DOCS/control-program.md>
* MSXHUB – Install software directly from Internet using an UNAPI compatible network card - <https://msxhub.com/>