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| **Introduction** |
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| http://www.lancos.com/img/PonyProg2000.gifIf you are looking for a simple but **powerful programmer** you are right, it's here.**PonyProg** is a serial device programmer *software* with a user friendly GUI framework available for Windows95/98/ME/NT/2000/XP and Intel Linux. Its purpose is reading and writing every serial device. At the moment it supports I²C Bus, Microwire, SPI eeprom, the Atmel [AVR](http://www.atmel.com/products/prod23.htm) and Microchip [PIC](http://www.microchip.com) micro.**SI-Prog** is the programmer *hardware* interface for PonyProg.With PonyProg and SI-Prog you can program Wafercard for SAT, eeprom within GSM, TV or CAR-RADIO. Furthermore it can be used as a low cost starter kit for PIC and AVR.  PonyProg works also with other simple hardware interfaces like [AVR ISP](http://www.lancos.com/prog.html#avrisp) (STK200/300), [JDM/Ludipipo](http://www.lancos.com/prog.html#ludipipo), [EasyI2C](http://www.lancos.com/prog.html#easyi2c) and DT-006 AVR (by Dontronics). |

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| **Features** |
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| http://www.lancos.com/img/palla.gif | Support 24C01, 24C02, 24C04, 24C08, 24C16 I²C Bus EEPROM |
| http://www.lancos.com/img/palla.gif | Support 24C32, 24C64, 24C65, 24C128, 24C256, 24C512 I²C Bus EEPROM |
| http://www.lancos.com/img/palla.gif | Auto detect 24XX EEPROM capacity |
| http://www.lancos.com/img/palla.gif | Support 24C325 and 24C645 I²C Bus EEPROM |
| http://www.lancos.com/img/palla.gif | Support Siemens SDE2516, SDE2526, SDA2546, SDA2586, SDA3546, SDA3586   EEPROM (as 24XX Auto) |
| http://www.lancos.com/img/palla.gif | Support AT17C65, AT17C128, AT17C256, AT17C512, AT17C010 I²C Bus EEPROM |
| http://www.lancos.com/img/palla.gif | Support Siemens SDE2506 EEPROM |
| http://www.lancos.com/img/palla.gif | Detect the bank roll over capability of some old 24XX EEPROM |
| http://www.lancos.com/img/palla.gif | Support AT90S1200, AT90S2313, AT90S2323, AT90S2343, AT90S4414, AT90S4434, AT90S8515, AT90S8535 Flash micro |
| http://www.lancos.com/img/palla.gif | Support AT90S2323, AT90S2343, AT90S2333, AT90S4433, AT90S4434, AT90S8535, AT90S8534 |
| http://www.lancos.com/img/palla.gif | Auto detect AVR microcontroller type |
| http://www.lancos.com/img/palla.gif | Support the AVR microcontroller ATmega103, ATmega161, ATmega163, ATmega 323, ATmega128, ATmega8, ATmega16, ATmega64, ATmega32, ATmega162, ATmega169, ATmega8515, ATmega8535 |
| http://www.lancos.com/img/aninew.gif | Support the AVR ATmega44, 88, 168, 164, 324, 644, 640,1280, 1281, 2560, 2561 (*untested*) |
| http://www.lancos.com/img/aninew.gif | Support the AVR AT90can32, 64, and 128 (*untested*) |
| http://www.lancos.com/img/palla.gif | Support the AVR ATtiny12, ATtiny15, ATtiny26, ATtiny2313 |
| http://www.lancos.com/img/aninew.gif | Support the AVR ATtiny13, 25, 45, 85, 261, 461, and 861 (*untested*) |
| http://www.lancos.com/img/palla.gif | Read ATtiny12 and ATtiny15 Oscillator Calibration Byte |
| http://www.lancos.com/img/palla.gif | Write lock bits to protect the AVR micro from reading |
| http://www.lancos.com/img/palla.gif | Write both the Flash and EEPROM memory of the AVR micro at once |
| http://www.lancos.com/img/palla.gif | Support the AT89S8252 and AT89S53 micro |
| http://www.lancos.com/img/palla.gif | Support 93C06, 93C46, 93C56, 93C57, 93C66, 93C76, 93C86 Microwire EEPROM (C and LC series, the CS serie is not supported yet) |
| http://www.lancos.com/img/palla.gif | Support 93C13 (as a 93C06) and 93C14 (as a 93C46) Microwire EEPROM |
| http://www.lancos.com/img/palla.gif | Access microwire eeproms in either 8 and 16 bit organization |
| http://www.lancos.com/img/palla.gif | Improved support PIC 16C84/16F84 micro |
| http://www.lancos.com/img/palla.gif | Support PIC 16F873/874/876/877 and PIC 16F84A micro |
| http://www.lancos.com/img/palla.gif | Support PIC 16F873A/874A/876A/877A and PIC 16F627/628 micro *(untested)* |
| http://www.lancos.com/img/palla.gif | Support PIC 12C508/509 micro |
| http://www.lancos.com/img/palla.gif | Support PIC 12C671/672 micro (*untested*) |
| http://www.lancos.com/img/palla.gif | Support 25010, 25020, 25040 SPI EEPROM |
| http://www.lancos.com/img/palla.gif | Support 25080, 25160, 25320, 25640, 25128, 25256 Big SPI EEPROM |
| http://www.lancos.com/img/palla.gif | Support 25642 and 95640 Big SPI EEPROM |
| http://www.lancos.com/img/palla.gif | Support NVM3060 eeprom |
| http://www.lancos.com/img/palla.gif | Support MDA2061/MDA2062 eeprom |
| http://www.lancos.com/img/palla.gif | Support X2444/X2445 eeprom |
| http://www.lancos.com/img/palla.gif | Support S24H30 (*untested*) |
| http://www.lancos.com/img/palla.gif | Read/Write Intel hex format file as well as raw binary file |
| http://www.lancos.com/img/palla.gif | Read/Write Motorola S-record format file |
| http://www.lancos.com/img/palla.gif | Read/Write CSM format file |
| http://www.lancos.com/img/palla.gif | Features a custom E²P format file to store the EEPROM characteristics, an editable comment and memory content all together with CRC |
| http://www.lancos.com/img/palla.gif | Enhanced buffer edit, text and hexadecimal |
| http://www.lancos.com/img/palla.gif | Work with Windows95/98/ME and WindowsNT/2000/XP and Linux\* |
| http://www.lancos.com/img/palla.gif | Reload file button |
| http://www.lancos.com/img/palla.gif | Fill buffer command |
| http://www.lancos.com/img/palla.gif | Security bits editing for AVR, AT89S and PIC |
| http://www.lancos.com/img/palla.gif | Serial number programming |
| http://www.lancos.com/img/palla.gif | Script files for batch programming |
| http://www.lancos.com/img/palla.gif | Improved speed with WinNT/2000/XP with a driver for direct I/O. |

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| \*Not all interfaces are supported in every operating system, for more informations look at the documentation. |
| Screen dump |
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| http://www.lancos.com/img/ponydump.png  |
|   Download page |
|   |
| [http://www.lancos.com/img/download.gifDownload PonyProg for Windows9x/ME/NT/2000/XP & Linux](http://www.lancos.com/ppwin95.html)You may also find useful the PonyProg2000 online [documentation](http://www.lancos.com/e2p/ponyprog2000.html).  |
|  TODO |
|  New GUI probably based on wxWidgets and USB support.Any contribution are welcome!  |
|   |
|   Hardware interfaces |
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| PonyProg now works with several hardware interfaces. Choose the one you prefer and try it. SI Prog (Serial port Interface for PonyProg)The official PonyProg hardware interface. It works with all devices supported by PonyProg. Look [here](http://www.artek.it/it/scheda_it.cfm?s_prodotto=284) to buy it.[SI Prog schematics](http://www.lancos.com/siprogsch.html)[SI Prog kit](http://www.lancos.com/ponykit.html)AVR ISP (STK200/300) parallel port interfaceThe best way to perform AVR ISP programming. It works even in low voltage systems (3V). To select it choose "AVR ISP I/O" or "AVR ISP API" from the Options - Setup menu and the parallel checkbox.You can connect directly to the target system (ISP) through the 10 pin connector, alternatively you can connect a PonyProg adapter card for AVR, AT89S, SPI eeproms, microwire eeproms and feed external power to the device."AVR ISP API" on Linux version need the parport, parport\_pc and ppdev kernel modules.On Windows2000/XP you have to select "AVR ISP I/O" and use a standard PC LPT port.Note that this interface doesn't support I²CBus devices, use the SI-Prog or EasyI2CBus interface instead.The STK200/300 official dongle is provided by Kanda.http://www.lancos.com/img/aninew.gifSome people suggest me improvements to the original STK200 dongle. For the discussion look [here](http://www.avrfreaks.net/index.php?name=PNphpBB2&file=viewtopic&t=33265)Here are the improved schematics.AVR ISP with STK200/300 pinout (connect it to STK200/300 eva board)http://www.lancos.com/e2p/betterSTK200-mini.gif [Click here to enlarge](http://www.lancos.com/e2p/betterSTK200.gif) AVR ISP with SI-Prog pinout (connect it to [SI-Prog](http://www.lancos.com/siprogsch.html) AVR adapter boards) http://www.lancos.com/e2p/avrisp-siprog_mini.gif [Click here to enlarge](http://www.lancos.com/e2p/avrisp-siprog.gif)Ludipipo and JDM interfacePonyProg support ludipipo and JDM interface to program PIC16x84. To select it choose "JDM I/O" from the Options - Setup menu and the serial checkbox. If you use Linux or experiment problems select "JDM API".[JDM schematics](http://www.lancos.com/e2p/Jdm-v22.gif)How to connect 24Cxx eeproms to JDM programmer:http://www.lancos.com/e2p/eeprdrw2.gifEasy I²C Bus interfaceTo select it choose "Easy I2CBus" from the Options - Setup menu and the parallel checkbox."AVR ISP API" on Linux version need the parport, parport\_pc and ppdev kernel modules.On Windows2000/XP you have to select "AVR ISP I/O" and use a standard PC LPT port.[http://www.lancos.com/e2p/easyI2Cbus_mini.gifClick here to enlarge](http://www.lancos.com/e2p/easyI2Cbus.gif) |