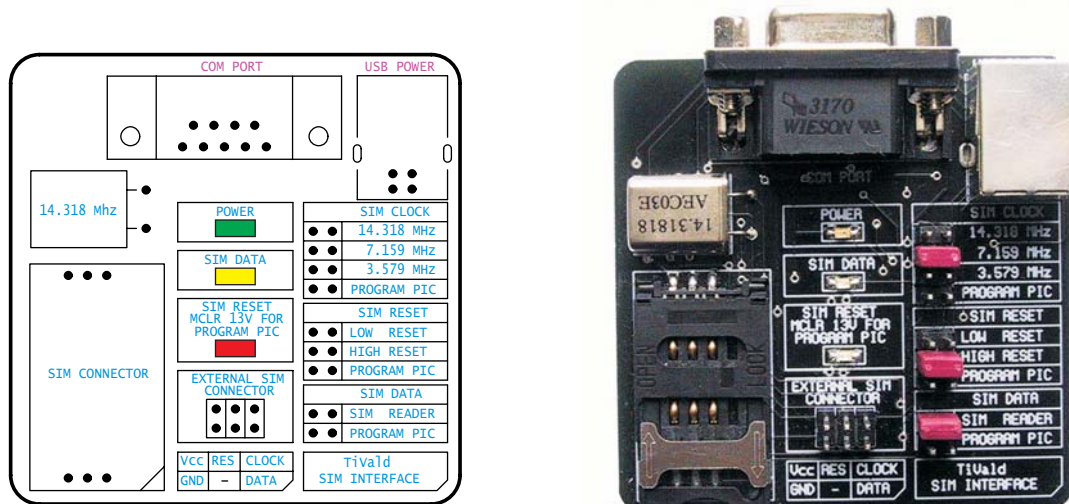


# TiVald Sim Interface v1.0

**Sim Interface** intended for operation with GSM SIM CARDS, PRE-PAY PHONE CARDS, SAT-TV CARDS, Clone SIM Cards.

**Sim Interface** can work in two modes:

- 1. SIM-READER** - mode intended for reading / writing GSM SIM CARDS, and writing EEPROM 24Cxx inside in a CLONE SIM CARDS (PHOENIX / SMART MOUSE compatible).
- 2. PROGRAM PIC** - mode is intended for programming FLASH / EEPROM Memory in PIC processor inside in a CLONE SIM CARDS (JDM Programmer compatible).



## FEATURES:

- Compatibility with PHOENIX / SMART MOUSE / DEJAN SIM SCAN / JDM Programmer.
- Reading from GSM SIM CARDS IMSI, KI codes and write them in a clone SIM-CARD.
- Reading and writing Phonebook and some parameters GSM SIM CARDS.
- Possibility to program PIC processor inside in a CLONE SIM CARDS (JDM Mode).
- In-Built converter 5 to 13 v for program PIC.
- Possibility to use different frequencies 14.318 MHz, 7.159 MHz, 3.579 MHz at reading SIM CARDS.
- LED for indication of a condition of a power supply.
- LED for indication of a condition of a SIM DATA.
- LED indicating a condition SIM RESET, in a mode of programming PIC indicating presence of voltage 13V on an input MCLR of the processor PIC.
- External SIM Connector

## OPERATIONAL MANUAL:

1. Connect SIM READER to a COM port of the PC.
2. For power supply SIM READER connect it to a USB port of the PC.
3. Establish a jumper *SIM CLOCK*, *SIM RESET*, *SIM DATA*.

### ***For SIM READER mode:***

Set jumper *SIM CLOCK* in a place 14.318 MHz, 7.159 MHz or 3.579 MHz it is necessary for operation of the majority of the programs.

Set jumper *SIM RESET* in a place LOW RESET or HIGH RESET it is necessary for operation of the majority of the programs.

Set jumper *SIM DATA* in a place SIM READER.

### ***For PROGRAM PIC mode:***

Set jumper *SIM CLOCK* in a place PROGRAM PIC.

Set jumper *SIM RESET* in a place PROGRAM PIC.

Set jumper *SIM DATA* in a place PROGRAM PIC.

***For SIM READER Mode:***

- For PROGRAM PIC mode:***

- For SIM READER & PROGRAM PIC Mode:***

- CLONE SIM CARD:**

Clone card are of the following types:

**Gold Card - (PIC16F84+24C16) max. 4 different provider names , 31 phonebook names, 1 SMS**

**Silver Card - (PIC16F876+24C64) max. 8 different provider names, 208 phonebook names, 10 SMS**

**Green Card - (PIC16F876+24C128) max. 8 different provider names, 250 phonebook names, 40 SMS**

**Black Card - (PIC16F876+24C256) max. 8 different provider names, 250 phonebook names, 40 SMS**

