

## SIMPlugIN-SERIAL support files

The support files present an implementation example of SIMPlugIN-SERIAL board. It is just an example so it does not come with any warranty whatsoever. It is just a quick made example to demonstrate functionality of the board.

It was compiled with Xilinx ISE rev 12.4

To use the present example WITHOUT modification you must connect SIMPlugIN-SERIAL board in CON3 connector of SIMPlugIN-LX45 base board.

Since SIMPlugIN-SERIAL board needs 3.3 volt and 5 volt then you should configure the following jumpers in **SIMPlugIN-LX45** base board:

JMP5	populated	3.3 volt available in CON2
JMP5	populated	5.0 volt available in CON2

Note: all other jumpers of **SIMPlugIN-LX45** base must be left in their default configuration.

Since this example is a loopback test of RS232 port and RS485 ports you will need two loop back connector

a) RS232 loopback connector: it is the standard serial (COM) of a PC computer.

Female, 9 pin, sub-D connector with the following wires:

- 2 with 3 ( TXD with RXD)
- 7 with 8 ( RTS with CTS)
- 1 with 9 with 6 and with 4 ( DTR with DSR, DCD and RI)

b) RS485 loopback connector

Male, 9 pin, sub-D connector with the following wires:

- 1 with 4
- 2 with 3

## USER INTERFACE

Command and results of the test are in SIMPlugIN-LX45 pushbuttons and leds.

PUSHB0 initializes all.

PUSHB1 launches the test. There is a generous debouncing time so keep pressing for at least 1 second.

Notice: once the test is executed to execute again you should press PUSHB0 and then PUSHB1.

LD1,2,3,4

- all lit: test OK
- LD1 blinking, all other off: fails RS232 test

Notice: RS232 test comes first and if error is detected then no further tests are executed.

- LD1 lit, LD2 blinking, all other off: RS485 test fails.