Xilinx iMPACT

It is a Xilinx bitstream tool that cannot be used to download firmware on USB FX2 microcontroller. It can be used to

- generate a .mcs file from a .bit file
- download a bitstream file on SPI Flash (direct or indirect in system programming)

To connect your computer to the board's JTAG connector, you typically need

- a JTAG cable with standard 6-pin JTAG female header;
- a 2.54 mm pitch 1 × 6 pin gender changer header.

Some examples of JTAG cable set are listed in the table below.

JTAG cable	flying leads	software	gender changer
Xilinx Platform Cable USB	included	Xilinx iMPACT	1 × 6 pin
Digilent XUP USB-JTAG Programming Cable	XUP Fly Wire Assembly	Xilinx iMPACT	1 × 6 pin
Digilent JTAG-USB Full Speed Module	included	Xilinx iMPACT Digilent Adept 2.0	1 × 6 pin
JTAG HS1 Programming Cable	not needed	Xilinx iMPACT Digilent Adept 2.0	not needed
JTAG HS2 Programming Cable	not needed	Xilinx iMPACT Digilent Adept 2.0	not needed