# TE0320 JTAG Interface

JTAG signals are available at:

- gender-inverted standard 6-pin JTAG header connector J2;
- B2B connector JM4.

JTAG Connector J2

The offset holes of header J2 allow a removable press fit of standard 0.100 inch header pins to connect flying leads without any soldering necessary.

JTAG signals are available on the dedicated header J2 through a JTAG programmer with flying leads as described in the table below.
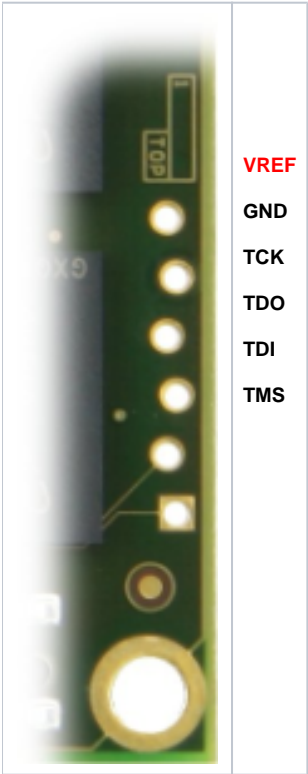
JTAG connector J2.

To connect your computer to JTAG connector J2, 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 HS1 Programming Cable | not needed | Xilinx iMPACT Digilent Adept 2.0 | not needed |

Some examples of JTAG cable set.

Figure A below shows a standard 6-pin JTAG female header, in this case flying leads, with a gender changer header.
Figure B below shows how a JTAG cable, in this case a Xilinx Platform Cable USB with flying leads and gender changer, is connected to a TE0320.

| **Figure A: standard 6-pin JTAG female header with gender changer.** | **Figure B: sample JTAG cable connection (TE0320 side).** |
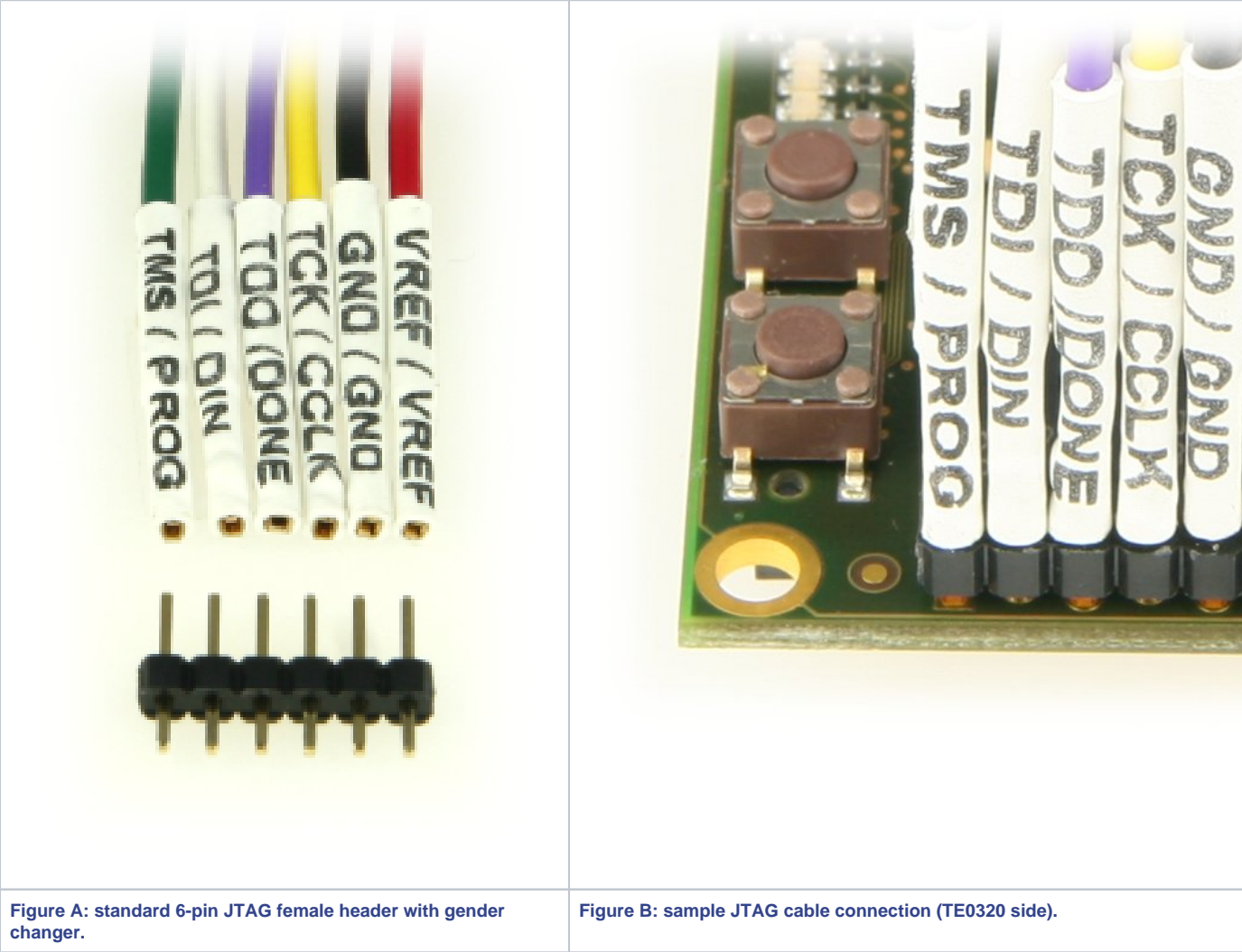
The figure below shows a recommended set-up for TE0320 configuration and operation. The USB cable provides for power supply and data communication channel. The JTAG is ideal for quick configuration and effective debugging.

Recommended development set-up for TE0320.

JTAG lines at B2B connector JM4

JTAG signal lines are also available at B2B connector JM4 (pins 74, 76, 78 and 80). See the corresponding pin-out table for additional information on these signals.