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Product Brief

Miniature USB Interface Board

FDB-INT-USB3

Features

- USB 2.0 full speed connection
- On-board Reset button
- Powered via USB connection from a host PC (no external power required)
- LEDs for status indication

Description

Finisar's FDB-INT-USB3 is a USB communications interface board used with other Finisar optical transceiver evaluation boards (EVBs) such as for the FDB-1051 QSFP+ EVB, as well as EVBs for CFP2 and CFP4. The FDB-INT-USB3 provides a communication bridge between the optical transceiver plugged into an EVB and a standard PC with a USB port. The FDB-INT-USB3 has a Type B USB port. A single USB A/B cable (typical printer cable) is needed to connect the FDB-INT-USB3 to a PC. Typically this allows a software GUI running on a PC to communicate with the transceiver. The transceiver could be using either I2C or MDIO as its communication interface.

The FDB-INT-USB3 is typically included with the EVBs that use it for communications. It is connected to other EVBs via a 40-pin IDE connector on its underside.
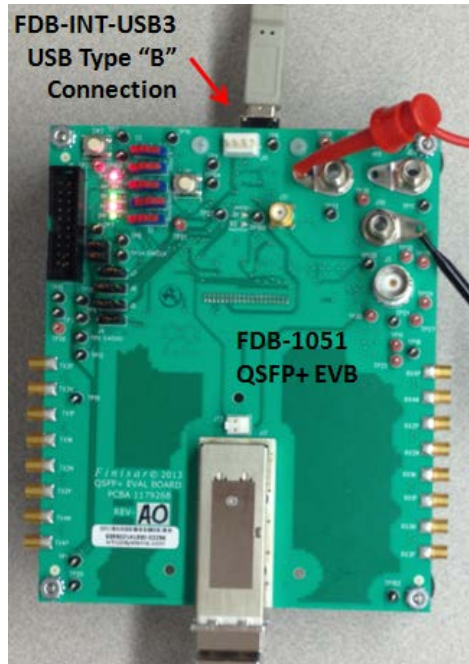
The FDB-INT-USB3 requires a software driver installation on a host PC. Please see instructions included herein.

Note:

- The FDB-INT-USB3 comes as an integrated part in Finisar EVBs. It is not available for sale as a standalone board.

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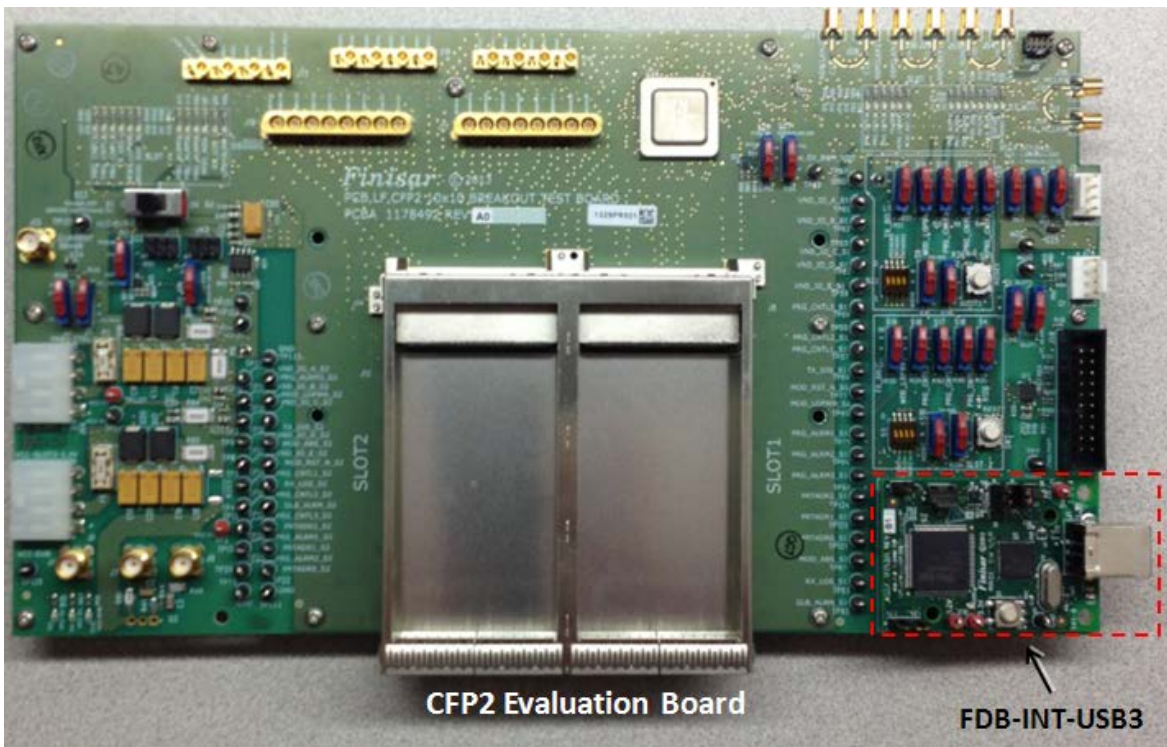**Examples of FDB-INT-USB3 with Other Evaluation Boards**

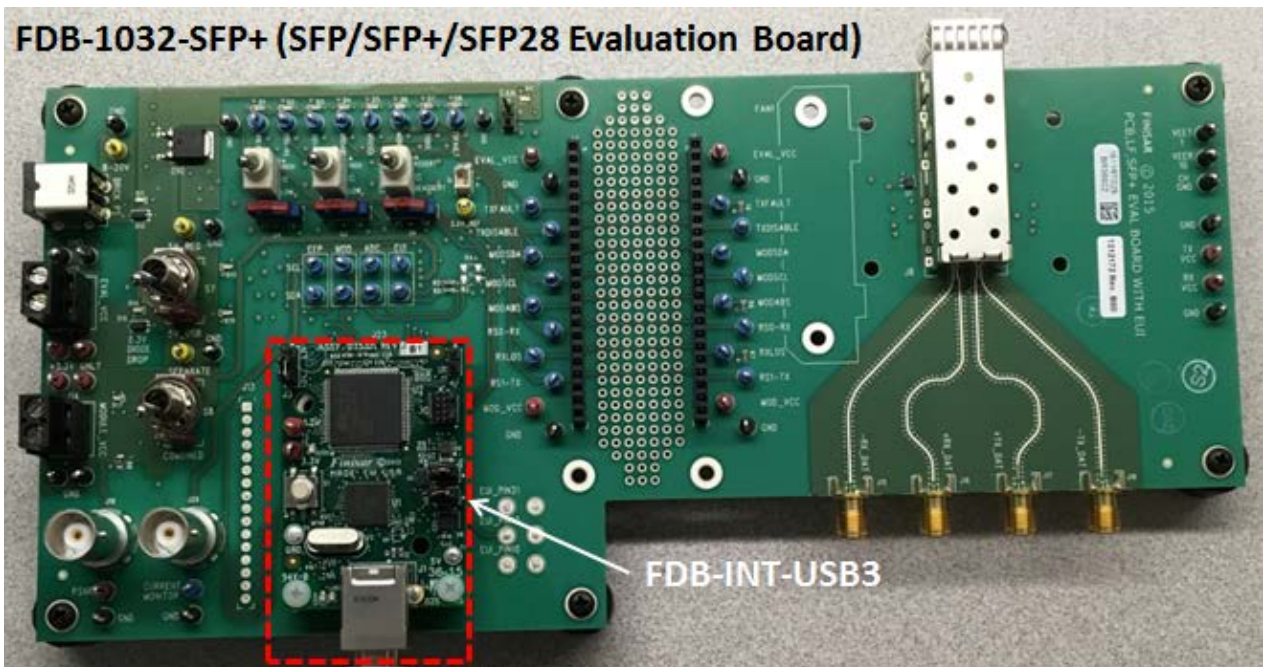The FDB-INT-USB3 is used with the FDB-1051 QSFP+/QSFP28 Evaluation Board as shown below.

The FDB-INT-USB3 is mounted on the underside of the FDB-1051.

FDB-1051 QSFP+ EVB

The FDB-INT-USB3 is used with the CFP2 Evaluation Board as shown below in the red-dashed rectangle on the top side of the board.
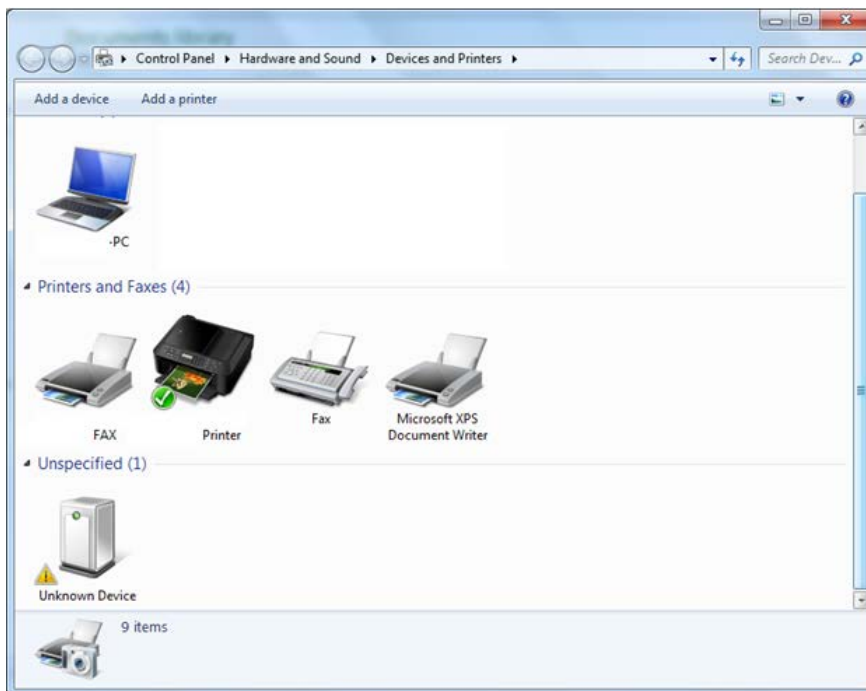

CFP2 Evaluation Board

FDB-INT-USB3

The FDB-INT-USB3 is used with the FDB-1032-SFP+ evaluation board (for SFP/SFP+/SFP28 transceivers) as shown below in the red-dashed rectangle on the top side of the board:
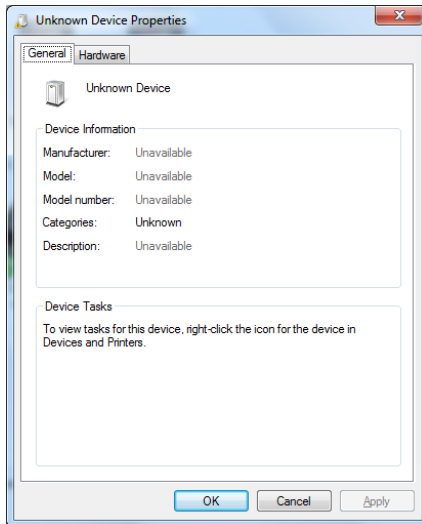

FDB-1032-SFP+ (SFP/SFP+/SFP28 Evaluation Board)

FDB-INT-USB3

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Software Driver Installation – Windows 7

The steps for installation on PCs with Windows 7 are as shown below. Note: the FDB-INT-USB3 is also referred to internally as "EUI3" or "EUIG3". Driver names will make reference to these internal names rather than FDB-INT-USB3. Please contact Finisar to obtain this software driver.
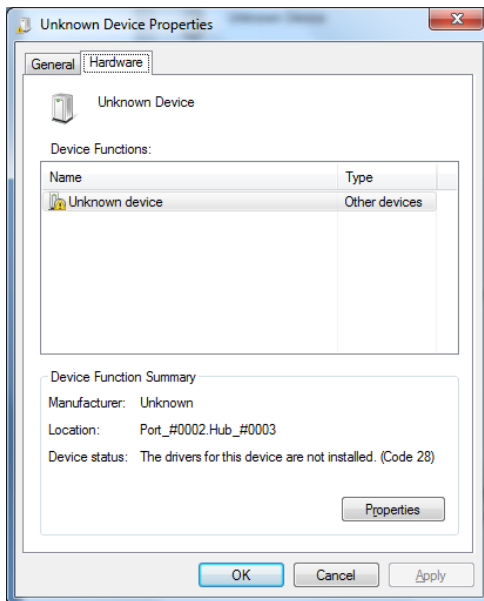
Step 1: From the Start menu on the PC, open "Devices and Printers". Connect the FDB-INT-USB3 to the PC with the USB A/B cable (A-side to the PC, B-side to the FDB-INT-USB3). An "Unknown Device" will show up in this window.
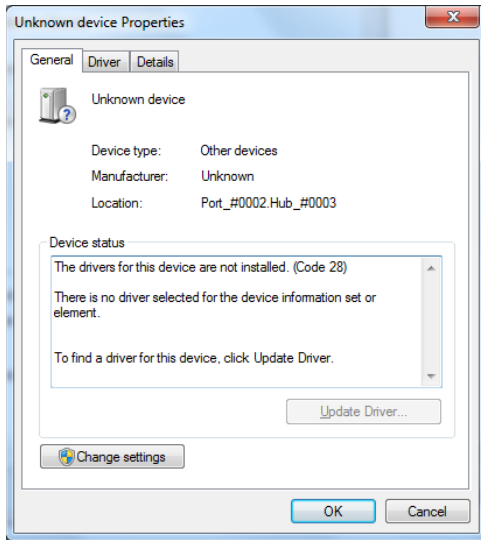

Step 2: Right click on "Unknown Device" and select "Properties" from the menu. You will see the following:
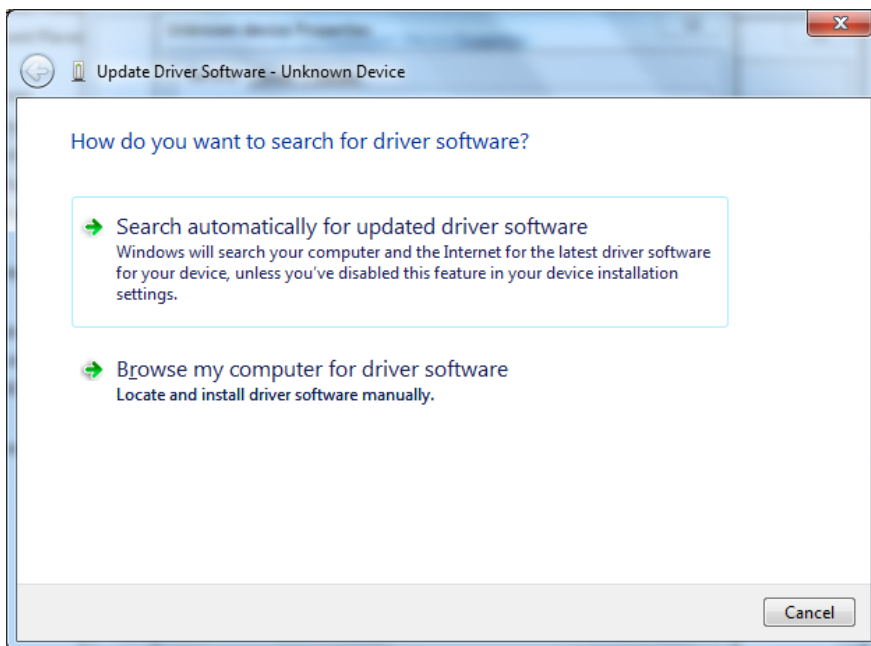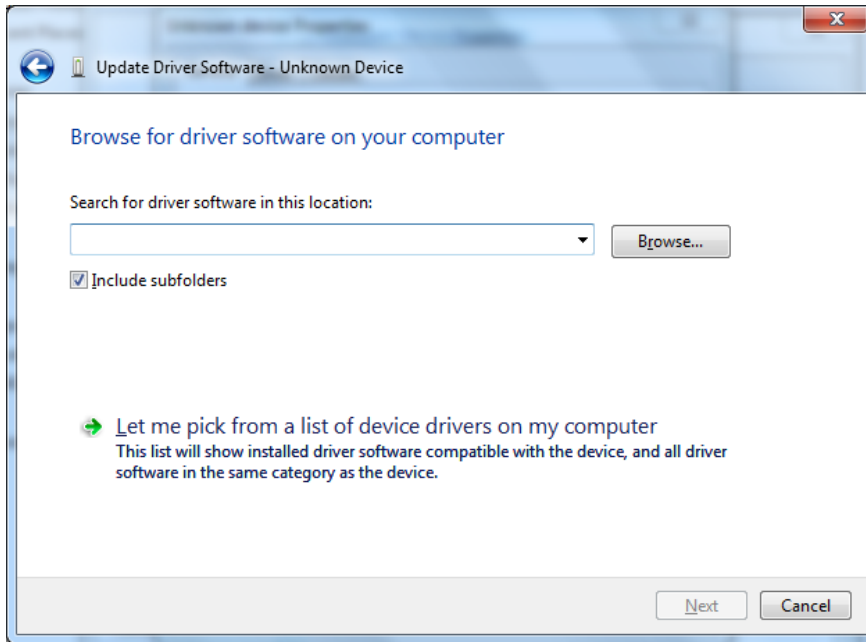
![FINISAR]

Step 3: Click on the "Hardware" tab:

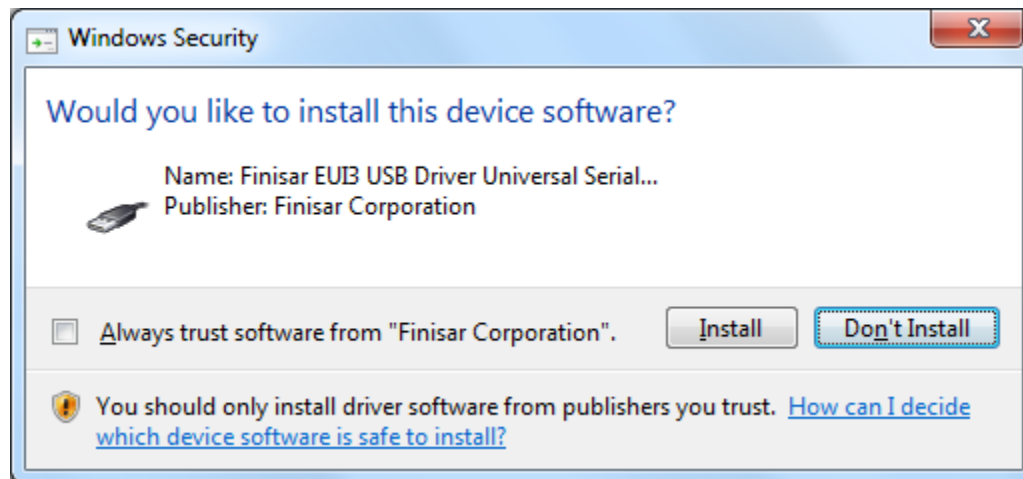**Step 4:** Click on "Properties":

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Step 5: Click on "Change settings". The "Update Driver …" button should now be active. Click on this button. This window will appear:

Step 6: Select "Browse my computer for driver software".

Step 7: Browse to the folder where the driver is located and select "Next". The following dialog box will appear (and make reference to "EUI3" which is the internal name for FDB-INT-USB3):

Step 8: Click "Install". When complete, the following icon will be displayed under "Devices and Printers":

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The driver is now installed.

Hardware Reset Button S1

After proper installation, press the hardware reset button S1 (round white button). One green LED will turn on (near the "Finisar" label on the silkscreen) and two LEDs will blink (near the USB-B connector). The FDB-INT-USB3 is ready to be used in conjunction with an evaluation board and a Finisar software program that enables communication to a transceiver or Active Optical Cable end.

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