USB-to-Parallel Adapter Board for ADF4xxx PLL Synthesizers

FEATURES
USB-to-parallel adapter board for PCs/laptops without parallel port
Direct hook-up to PC USB port
Powered from USB port

GENERAL DESCRIPTION
The EVAL-ADF4XXXZ-USB board allows evaluation boards that were designed for programming by a PC parallel port to be programmed via the PC USB port. The adapter board connects to the PC USB port and the 25-way parallel port connector of the evaluation board. For information regarding the evaluation board and operation of software, consult the relevant evaluation board documentation.

Figure 1.
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REVISION HISTORY
4/12—Revision 0: Initial Version
QUICK START INSTRUCTIONS

Figure 2 shows how the USB adapter board interfaces from the PC to the ADF4xxx evaluation board. The adapter board is supplied with a USB cable to connect to the PC USB port. The ADF4xxx evaluation board comes with the necessary parallel to D-type cable.

The latest evaluation software should be downloaded from the Analog Devices, Inc., website at www.analog.com. The software must be installed before connecting the USB adapter board to the PC to ensure that the adapter board is correctly recognized by the PC.

1. After installing the latest version of software, connect the USB adapter board to the PC using the USB cable provided.
2. The board is detected, and the drivers install automatically.
3. Connect the ADF4xxx evaluation board to the USB adapter board with the 9-pin to 25-pin parallel port cable.
4. Run the evaluation software associated with the part you are evaluating. On the front panel of the software, choose USB adapter board (green) and click Connect.
5. Follow the directions in the history log of the evaluation software.

Figure 2. USB Adapter Board Setup
Figure 3. Evaluation Board Schematic
## ORDERING INFORMATION

### BILL OF MATERIALS

Table 1.

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<thead>
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<th>Reference Designator</th>
<th>Description</th>
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<td>Capacitor, 0603 22 pF 50 V</td>
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NOTES

ESD Caution
ESD (electrostatic discharge) sensitive device. Charged devices and circuit boards can discharge without detection. Although this product features patented or proprietary protection circuitry, damage may occur on devices subjected to high energy ESD. Therefore, proper ESD precautions should be taken to avoid performance degradation or loss of functionality.

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