

Installation Manual

Installation Manual for the MicroWave Office design kit
version v1.0

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Installation Manual

Document information

Info	Content
Keywords	MicroWave Office® Design kit Linux/Unix and Windows Instruction Manual RF small signal
Abstract	Installation manual for installing the RF small signal design kit in the MicroWave Office® system, for both Linux/Unix and Windows operating system

Revision history

Rev	Date	Description
1.0	20090805	Initial document
1.1	20091124	Modifications in Trademarks and addition of ® registration

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1. Introduction

The purpose of this instruction manual is to guide the customer through to process of installing the NXP RF Small Signal design kit for the AWR® RF simulator MicroWave Office®.

1.1 Content of the Design Kit

The NXP RF small signal design kit version 1.0 currently consists of the following devices:

- RF Wideband devices
- RF Diodes
- RF Junction Fet's
- RF dual-gate MOSFet's
- RF MMIC's

1.2 Models and data

The following models and/or data is available in the design kit, for simulating the RF circuits:

- SPICE parameters
- S-parameters
- Noise parameters
- Data sheets

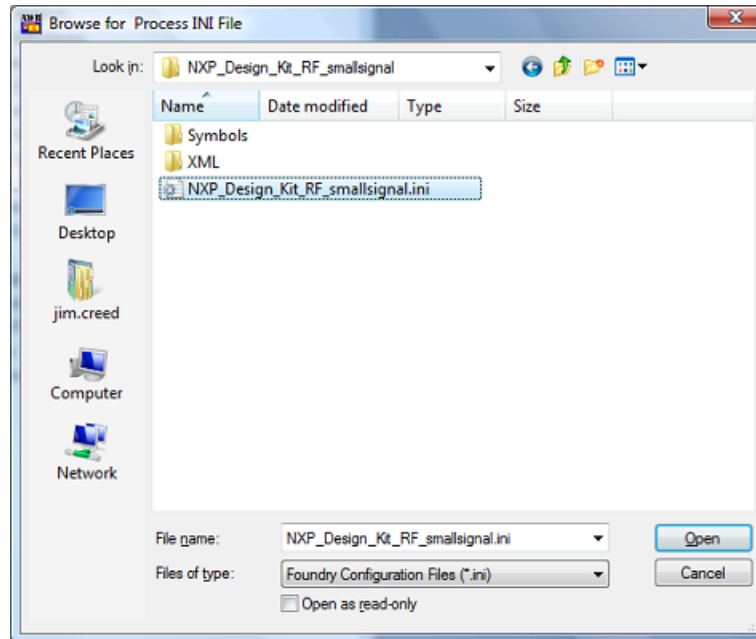
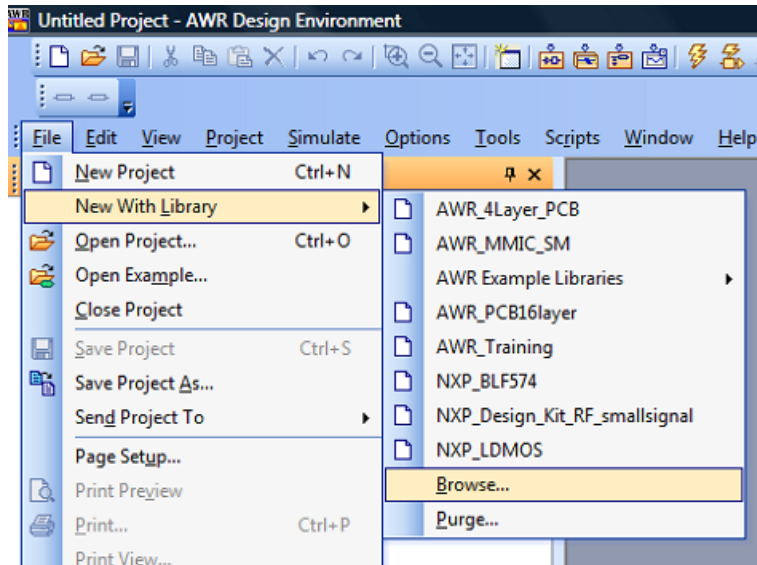
It should be noted, that not all above-mentioned data is available for all devices. The availability per device can be recognized in the associated file.

2. Installing Instructions

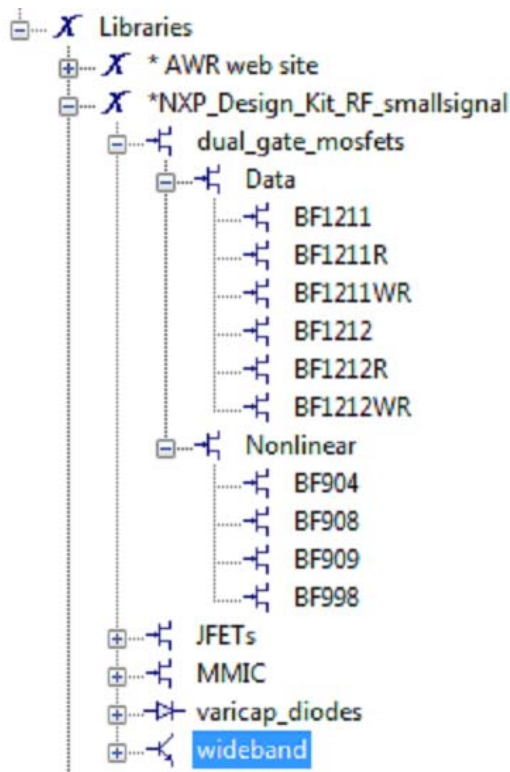
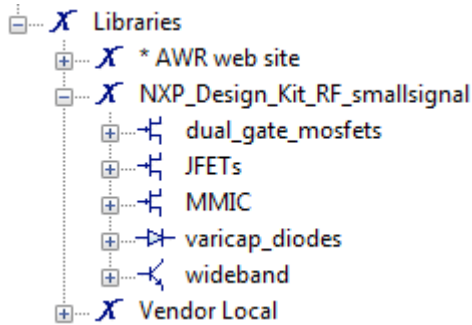
The sections below will describe the installing instructions for the case that no design kit has been installed.

1. If there is an **NXP_Design_Kit_RF_smallsignal** folder in the directory "**\$AWR\Foundry\NXP**" where \$AWR is the directory where the AWR software is installed (typically "C:\Program Files\AWR"), delete the NXP_Design_Kit_RF_smallsignal folder and all sub-folders.
2. Unzip the file "**NXP_Design_Kit_RF_smallsignal_Vx.zip**" into the \$AWR directory. You should see a new directory "**Foundry\NXP\NXP_Design_Kit_RF_smallsignal**".
3. Start the AWR Design Environment from the default shortcut on your desktop.
4. Once MWO has started, go to the menu "Project", select "Process Library"->"Add/Remove Library..." and press the "Add" button. Browse to the directory "\$AWR\Foundry\NXP\ NXP_Design_Kit_RF_smallsignal" to find "**NXP_Design_Kit_RF_smallsignal.ini**" file Select and press "Open". The NXP_Design_Kit_RF_smallsignal Library will be loaded into your MWO project and for the next time you start MWO, it will appear in the list of installed Libraries.
5. The next time you start MWO, go to the menu "File"->"New With Library" and you should see " NXP_Design_Kit_RF_smallsignal" in the list.
6. The NXP_Design_Kit_RF_smallsignal will appear under the element browser "Elements"->"Libraries". Click on the "+" sign to expand the folder "Libraries" and you should see the folder " NXP_Design_Kit_RF_smallsignal ". Expand the folders to see all of the parts in the design kit.
7. To add the NXP_Design_Kit_RF_smallsignal to an existing project, go to the menu "Project", select "Process Library"->"Add/Remove Library...". Press the "Add" button, then open:
"NXP_Design_Kit_RF_smallsignal.ini" as listed above. Press "OK" and the NXP the NXP_Design_Kit_RF_smallsignal library will be added to your project file

See also figures below.



After installing the design kit, a structure, as shown below, will be implemented, and after expanding one of the products, a structure will appear divided in a Data branch (with as content S-parameter data and noise data), and a Nonlinear branch (with as content the non-linear models of the devices), as shown in the figures below.



3. Legal information

3.1 Definitions

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