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HMC-T2200 Synthesized Signal Generator Family

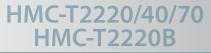
131195 Rev E ECN# CP111965 v03.0611

## **Quick Start Guide**

Installation & Setup Guide

for HMC-T2220, HMC-T2220B, HMC-T2240, HMC-T2270





#### A. Contents of Box



1. Signal Generator



3. Power Supply



2. Installation Disk



4. Power Cord

#### 5. Batteries (For HMC-T2220B only)

#### B. Battery Installation (For HMC-T2220B only)

- Disconnect power supply from unit.
- Remove battery access cover on the top side of enclosure by loosening the 2 screws.
- Install 2 batteries into the battery tray. See photo below for battery installation.
- Install battery cover on the unit and tighten the 2 cover screws.



Battery Tray Installation Example

#### C. Unit Start-up

- Verify that the power switch on the power supply is in the off position.
- Insert the power supply's circular connector into the socket at the rear of the unit.
- Insert one end of the power cord into the power supply and then insert the other end into an electrical outlet.
- Turn on the power switch at the power supply.
- Turn on the power switch at the front of the unit.

#### D. Connect to PC

• USB

If you are using USB, please install the driver BEFORE connecting the Signal Generator. Connect a USB cable (not supplied) between the port at the rear of the unit and a PC.

If you are using GPIB or Ethernet, you do not need the driver on the CD.

Note: You will need a USB connection temporarily to configure the Ethernet.

(See the Programmer's Manual for additional information)

• GPIB

Connect cable to a PC.

Ethernet

Connect cable to a PC.

#### E. Software Installation

When installing the software from the CD, follow the directions provided by the installation program. See below for general installation process.

If you already have the HMC-T2XXX GUI and USB Driver installed on your PC, you will see the following message:

Hittite HMC-T2xxx Signal Generator Setup	×
You must uninstall the current HMC-T2xxx GUI and USB Driver before you can install a Please power off all HMC-T2xxx units connected to your computer. Uninstall now?	iew one.
Press "Yes" to continue.	
🕮 Hittite HMC-T2xxx Signal Generator Setup	
Software License Agreement	<b>B</b>
Please read the following Agreement (Use copy/paste to e-mail or print this license):	
HITTITE MICROWAVE CORPORATION END USER SOFTWARE LICENSE AGREEMENT	
In return for acquiring a license from Hittite Microwave Corporation ("Hittite") to use the computer software included in this distribution (the "Software," which may include calibration software, drivers an other software produced by Hittite and its third-party licensors), you agree to the following terms and conditions:	
The environment of the Hittle End User Software License Agreese     C I do not accept the terms of the Hittle End User Software License Agreement.	ment.
Hitdite HMC-T2xxx Synthesizer v2.4	<u>+</u>

If you agree to the terms of the license agreement, select "I have reviewed and I accept the terms of the Hittite End User Software License Agreement.", then click Next to proceed. If you do not agree, do not install the software. You do not need the GUI software if you are not using USB. The documentation can be downloaded from www.tm-hittite.com.

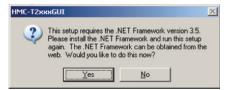
Installation Options		
Select components to install;	HMC-T2xxx GUI T2200 USB Driver HMCSynth DLL T2XXX LabVIEW Drivers T2100 USB Driver T2200 Callbration T2200 Firmware	Poscription Position your mouse over a component to see its description.
Space required: 4.3MB		
ite HMC-T2xxx Synthesizer v2	.4	

Select the desired components with the check boxes, then click the install button.

The following window will be displayed during the install process. This window shows status of the install.

🏶 Hittite HMC-T2xxx Signal Generator Set	up	
Installing		
Execute: msiexec /i "C:\DOCUME~1\lzhang\LC	CALS~1\Temp\HittiteHMCT2	xxx\HMCT2xxxGU]
Show details		
Hittite HMC-T2xxx Synthesizer v2,2		
	< Back Close	Cancel

If you do not have .NET Framework version 3.5 installed on your computer, you will see the following message:



Press "Yes", and follow instructions to install the .NET Framework 3.5 from the Microsoft website. After you finish this process, re-insert the CD and re-start the installation process.

When installing under Windows XP, you may get the following message:



Press "Continue Anyway".

You should not get any warnings from Windows 7 or Vista.

If you select to install the "HMCSynth DLL" and you already have the "HMCSynth DLL" installed on your computer, you will see the following message

Hittite HMC-T2xxx Signal Generator Setup	
You must uninstall the current HMCSynth DLL before you can install a new one. Please close HMCSynth DLL related application on your computer. Uninstall now?	
<u>Yes</u> <u>No</u>	
Press "Yes" to continue	
@HMCSynth	×
Welcome to the HMCSynth Setup Wizard	)e
Select whether you want to repair or remove HMCSynth.	
C Bepair HMCSynth C Remove HMCSynth	
Cancel < Back. Einish	]

Select "Remove HMCSynth" and press "Finish" to continue.

If you select to install the "HMC-T2XXX LabView Driver" and you already have the "HMC-T2XXX LabView Driver" installed on your computer, you will see the following message:

mittice HML-	T2xxx Signal Generate	or Setup		
You must uping	tall the current HMC-T2XX	VI SKUTEW deio	ar bafora you ca	install a new one
Please close HM	IC-T2XXX LabVIEW driver I	related applical	tion on your comp	outer. Uninstall no

Press "Yes" to continue.

If you select to install the "T2100 USB Driver" and you already have the "T2100 USB Driver" installed on your computer, you will see the following message:

🕮 Hittite HMC-T2xxx Signal Generator Setup	×
You must uninstall the current HMC-T2100 USB Driver before you can install a new one. power off all HMC-T2100 units connected to your computer. Uninstall now?	Please
<u>Yes</u> <u>N</u> o	

Press "Yes" to continue.

If you select to install the "T2200 Calibration" and you already have the "T2200 Calibration" installed on your computer,

you will see the following message:

Hittite HMC-T2xxx Signal Generator Setup
You must uninstall the current HMC-T2200 Calibration application before you can install a new one. Please close HMC-T2200 Calibration application on your computer. Uninstall now?

You need to install the MATLAB Compiler Runtime library for the HMC-T2200 Calibration application:

Hittite HMC-T2xxx	Signal Generator Setu	р		×
You must install the MA Install now?	TLAB Compiler Runtime Libi	rary for the HMC	-T2200 Calibration	n application.
	Yes	No		

Press "Yes" to continue.

n 1% Complete			<u>_ 🗆 ×</u>
Removing files for MATLAB	Compiler Runtime 7.16		About 10 minutes remaining
	1%		
			Pause
		Cancel	📣 MathWorks

Will take about 15 - 20 minutes.

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🏶 Hittite HMC-T2200 Firmwa	re Updater	_ 🗆 🗙
Installation Options		
Select components to install:	♥ 5W 2.4/FPGA 5.1 ⊕ ⊡ Old	Description Position your mouse over a component to see its description.
Space required: 0.0KB		
Hittite HMC-T2200 Firmware Upda	ter v2,4	
		Next > Cancel

If you select "T2200 Firmware Updater", a revision list window will display:

Select the SW/FPGA revision and press "Next".

A file "ReadMe" will be displayed, follow the instructions for the whole update process.

🌐 Hittite HMC-T2200 Firmware Updater	
Installation Options	
(C) 2011 Hittite Microwave Corporation. Please read documentation before using this software.	
MICROCONTROLLER Updates to Version 2.4	
Enter COM Port (RS-232/Serial Port) number(usually 1, range 1 ~ 256):	
1	
FPGA Updates to Version 5.1	
Enter COM Port (USB/RS-232 Port, range 1 $\sim$ 256) number, USB port is about 4 times than RS-232:	faster
1	
Hittite HMC-T2200 Firmware Updater v2,4	
< Back Install C	ancel

Type the COM port numbers for Microcontroller/FPGA update, then press "Install". It will take about 15 - 30 minutes for the whole update process.

Hittite HMC-T2xxx Signal Generator Sel	tup		_ 🗆 🗵
Installation Complete Setup was completed successfully.			*
Completed			
Show <u>d</u> etails			
Hittite HMC-T2xxx Synthesizer v2.4			
	< <u>B</u> ack	Close Can	cel

Select "Close". The installation of all software components is finished.

### F. Technical Support

Please contact  $\underline{TE@hittite.com}$  or call (978) 250-3343 and request the Instrumentation Product Support department.

