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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



## www.valuetronics.cd

#### 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

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- 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:

	Yes	No	
	Press "Ye	s" to continue.	
Hittite HMC-	2xxx Signal Generator Setu	p	
Software Li	cense Agreement		*
Please read th	e following Agreement (Use copy)	paste to e-mail or print this lice	inse):
	HITTITE MICROWA	VE CORPORATION	-
	END USER SOFTWARE I	ICENSE AGREEMENT	
In return ("Hittite") (the "Soft other soft you agree	or acquiring a license froi to use the computer soft ware," which may include ware produced by Hittle to the following terms ar	m Hittite Microwave Co tware included in this d calibration software, c and its third-party licer ad conditions:	rporation stribution lrivers and isors),
-	iewied and Laccent the terms of th	ne Hittite End Liser Software Li	rense Adreement

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.

Select components to install:	HMC-T2xxx GUT T2200 USB Driver HMCSynth DLL T2xxx LabVIEW Drivers T2100 USB Driver T2200 Calibration T2200 Firmware	Description Position your mouse over a component to see its description.
Space required: 4 3MB		

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 Setup			
Installing			٩
Execute: msiexec /i "C:\DOCUME~1\izhang\LOCALS~1	\Temp\Hittite	HMCT2xxx\HMC	T2xxxGUI
Show details			
Hittite HMC-12xxx Synthesizer V2.2	Back (	Jose	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.

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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 Gene	erator Setup		×
You must uninstall the current HMCS HMCSynth DLL related application or	ynth DLL before y n your computer.	ou can install a new on Uninstall now?	e. Please close
	<u>res</u>	10	
Pr	ess "Yes" to	o continue	
HMCSynth			
Welcome to the HMCSy	nth Setup	Wizard	
Select whether you want to repair or rem	ove HMCSynth.		
C Bepair HMCSynth			
Remove HMCSynth			
	Canad	1 c Rest	1 Einish
	Cancel	s gauk	

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:

	ka siyilal generacu	rsetup		X
			and the second second	
You must uninstall th	e current HMC-12XXX	LabVIEW driver before	re you can install a r	new one,
Please close HMC-T2	2XXX LabVIEW driver re	slated application on	your computer, Unir	hstall now?
	You must uninstall th	You must uninstall the current HMC-T2XXX	You must uninstall the current HMC-T2XXX LabVIEW driver befor	You must uninstall the current HMC-T2XXX LabVIEW driver before you can install a
	Please close HMC-T2	Please close HMC-T2XXX LabVIEW driver re	Please close HMC-T2XXX LabVIEW driver related application on	Please close HMC-T2XXX LabVIEW driver related application on your computer. Unit

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 General	2	nal Generator Setup
You must uninstall the current HMC-T211	stall a new one. Please	ent HMC-T2100 USB Driver before you can insta
power off all HMC-T2100 units connecte	ow?	nits connected to your computer. Uninstall now

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 Si	gnal Generator Setu	ıp	×
You must uninstall the cu one. Please close HMC-1	rent HMC-T2200 Calibr 2200 Calibration applic	ation applicat ation on your <u>N</u> o	ion before you can install a new computer. Uninstall now?

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



Press "Yes" to continue.

🥠 1% Complete			
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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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/R5-232 Port, range 1 ~ 256) number, USB port is at than R5-232:	oout 4 times Faster
1.	
Rude Innu-12200 Finitiwate Updater V2.4 Sack Instal	Cancel

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 Setup	
Installation Complete	
Setup was completed successfully.	1422
Completed	
Show details	
Show gecans	
ttite HMC-T2xxx Synthesizer v2.4	
2 Bark	Close Cancel

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

#### F. Technical Support

Please contact <u>TE@hittite.com</u> or call (978) 250-3343 and request the Instrumentation Product Support department.



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