Ordering Information and Authorized Distributors

Ordering Production Quantities

Simple ordering of standard Cypress part numbers through authorized Cypress distributors

- The part number will be provided by the software when downloading a specific configuration during sample generation.
- For example, if you generated clock samples for an output frequency of 150 MHz, input 25 MHz, using CY228800FXC-12A, then your ordering Part Number is CY228800FXC-12A.

Arrow Electronics, Inc.
Worldwide: http://www.arrow.com

Avnet, Inc.
North America & Asia: http://www.em.avnet.com
Europe: http://www.silica.com

Future Electronics
Worldwide: http://www.futureelectronics.com

Digi-Key Corporation
Worldwide: http://www.digikey.com

For additional information on Cypress products visit www.cypress.com/InstaClock

InstaClock™
Programmable Clock Generator

Get the standard frequency you want in less than 60 seconds

Cypress introduces the easy-to-use CY36800 InstaClock™ Programmer to enable quick PC-based clock sample generation for commonly used clock frequencies.

InstaClock CY36800 Contents:
- *5 Samples of CY22800*
- *1 Programmer with USB Connector*
- *1 USB Cable*
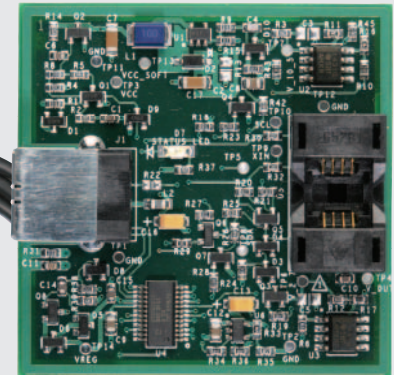- *1 CD-ROM Containing Software and Ordering Information*

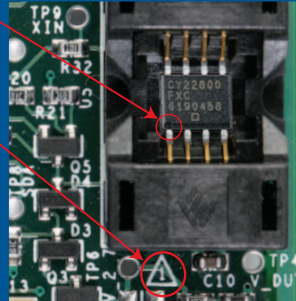CY22800 Samples

Programmable Clock with EMI Reduction

USB Cable

CY36800 Programmer

CYPRESS
PERFORM

CYPRESS
PERFORM

CY36800

It's as Easy as 1, 2, 3.

1. Attach the USB programmer and insert CY22800 into socket.*

   Align pin 1 on CY228800 package, identified by a tiny notch just above pin 1, with pin 1 on the programmer socket, marked by a white triangle on the programmer board, when inserting it into the socket.

2. Choose the frequency requirements.

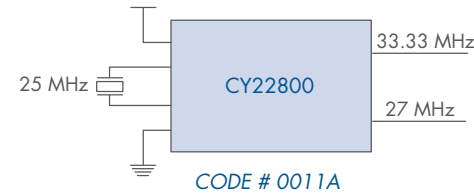3. Follow the instructions to program device.

InstaClock™ Advantages

The "Old" Way	The "InstaClock" Way
Order programmed clock samples and wait (lead time) for delivery	Make your own samples in minutes for most standard frequencies
Qualify one clock device for each required frequency	One device for all frequencies supported by InstaClock

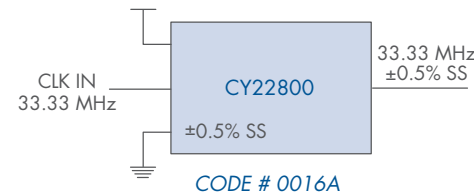| Your Challenges	InstaClock Value
Changing system performance during design and testing requires quick samples	InstaClock generates new samples in minutes
Reducing cost and BOM	Single device qualification for most standard frequencies
Tight R&D budgets and schedules	Free, easy-to-use InstaClock programming kit with reprogrammable samples

Distributor contact information is listed on the back of this brochure and is also provided on the CD-ROM.

Examples:

I. PCI Clock Generator without Spread Spectrum

25 MHz — CY22800 — 33.33 MHz / 27 MHz

CODE # 0011A

II. PCI Clock Generator with Spread Spectrum

CLK IN 33.33 MHz — CY22800 ±0.5% SS — 33.33 MHz ±0.5% SS

CODE # 0016A

To generate your PCI frequency with or without spread spectrum (SS), use Jedec code #0011A and #0016A, respectively.

FEATURES

- **Programmable Clock Generator**
  - Predefined list of widely used configurations to meet most clocking requirements

- **EMI Reduction**
  - Programmable Spread Spectrum from ±0.25% to ±2.0%
  - Lexmark Profile for Maximum EMI Reduction

- **VCXO**
  - ±150 ppm Pull-Range Provides Flexible Crystal Selection

Features and Benefits of CY22800	
General Purpose Clock Synthesizer	Microprocessor, USB, Ethernet, PCI, and other standard frequencies
General Purpose Spread Spectrum	±0.25% to ±2.0% programmable Lexmark profile
VCXO	±150 ppm Pull-Range provides flexible crystal selection