



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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# 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](http://www.cypress.com/InstaClock)

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# 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

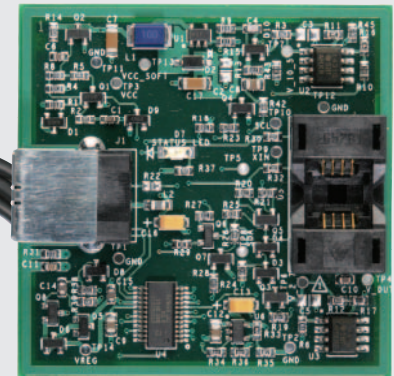
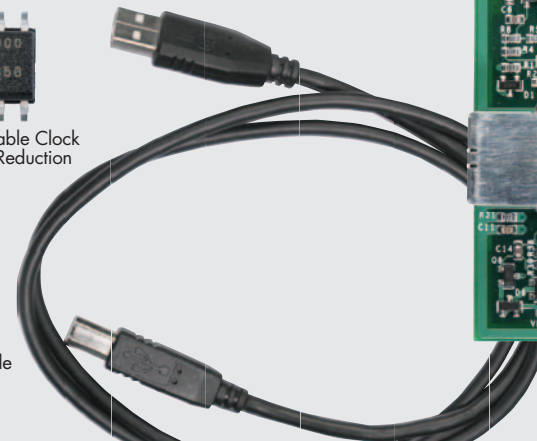


CY22800 Samples



Programmable Clock  
with EMI Reduction

USB Cable



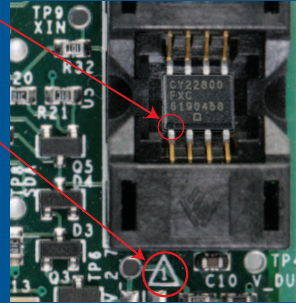
CY36800 Programmer



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

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

\*Align pin 1 on CY22800 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.

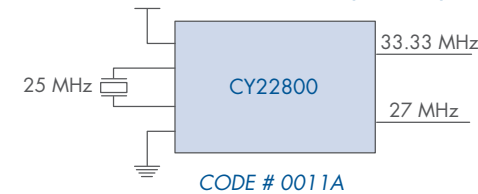
## InstaClock™ Advantages

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

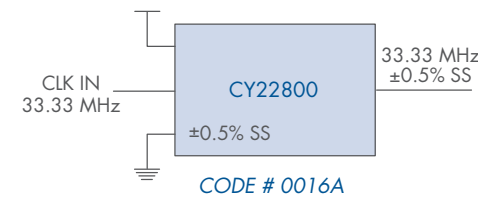
Distributor contact information is listed on the back of this brochure and is also provided on the CD-ROM.

Examples:

### I. PCI Clock Generator without Spread Spectrum



### II. PCI Clock Generator with Spread Spectrum



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  $\pm 0.25\%$  to  $\pm 2.0\%$
  - Lexmark Profile for Maximum EMI Reduction
- VCXO**
  - $\pm 150$  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	$\pm 0.25\%$ to $\pm 2.0\%$ programmable Lexmark profile
VCXO	$\pm 150$ ppm Pull-Range provides flexible crystal selection