REQUESTING A CL8000 FIRST ARTICLE

Introduction

This document will provide you with the information necessary for submitting a design file to Clear Logic. It will outline the data required to generate first articles, as well as the procedure for providing this data to Clear Logic. It will describe in general terms how your prototypes will be processed, and will provide guidelines for approving the prototypes once you receive them.

Data Required

In order to produce prototypes for a given FLEX 8000 design, Clear Logic needs [1] a completed First Article Request Form, and [2] a copy of the bitstream output file (.HEX, .POF, or .TTF filename extension) from the Max+Plus® II design software. A copy of the First Article Request Form is included in this document.

The First Article Request Form contains contact information as well as some basic information regarding the configuration scheme used by the target system. This information must be completed to ensure that the first articles are processed correctly.

Submitting a Design

The first article request can be submitted either electronically or in hard copy form. To request a prototype electronically, point a Netscape 2.0 compatible browser to *www.clear-logic.com/firstarticle*. You will be directed to a web-enabled version of the First Article Request Form, which will collect the necessary information from you, and which will allow you to attach the bitstream file. Inquiries regarding first article requests can be emailed to *firstarticle@clear-logic.com*.

Email is another popular method for submitting first article requests. Clear Logic provides an electronic Excel worksheet version of the First Article Request Form for you to download at *www.clear-logic.com/firstarticle*. Just attach the completed form and the bitstream file to your email message. Send your email to *firstarticle@clear-logic.com*.

First Article Request

"green" cells MUST be filled out; "Blue" (dark) cells as appropriate or available

Sales Representative:
Rep Company:
Date:
Distributor Salesman:
Distributor Company:

Customer Information

Customer:
Account No.:
End Customer:
Purchasing Contact:
Technical Contact:
New Design? (1=Yes, 2=No):
Revision of following device:
phone:
phone:

Bitstream File Information: Acceptable Formats Include .HEX, .POF, and .TTF

File Name:
Revision Date:

Design Information

Complete Part No.: (incl. package and speed grade)
No. of First Articles: NOTE: Sales Mgr. approval required for > 2 first articles.

1. Please indicate the configuration scheme used by the target system:

AS = Active Serial APU = Active Parallel Up PPS = Passive Parallel Synchronous
PS = Passive Serial APD = Active Parallel Down PPA = Passive Parallel Asynchronous

2. "Instant On" bypasses the configuration sequence and eliminates the need for an external EPROM.
Is this option desired? (1=Yes, 2=No) If YES, a Technical Contact MUST be provided above.

3. Clear Logic components are NOT suitable for applications employing in-system reconfigurability.
Does the target system use in-system reconfigurability? (1=Yes, 2=No)

Shipping Information

Ship to the following address. If left blank, first articles will be sent to the sales representative listed above.

Name:
Address:
City:
State:
Country:
Phone Number:

Figure 1. First Article Request Form (Revised August, 1998)

You may also request a first article using a paper hard copy of the First Article Request Form, submitted with your bitstream on a floppy disk. We recommend that all hard copy/floppy first article requests be submitted by way of your local Clear Logic sales representative or distributor. To submit a hard copy directly to Clear Logic, please send the completed form and the floppy via Fedex to *First Articles, Product Marketing Group, Clear Logic, Inc.; 2972 Stender Way; Santa Clara, CA 95054*; the telephone number is *(888) 548-7788 (toll free within the United States) or (408) 492-8585*.

First Article Processing

Once your first article request is received, Clear Logic processes it to create your prototypes:

Verification: All forms are verified to be completely filled out. You may be contacted by your Clear Logic sales person to verify information regarding your requirements. The design file will be checked to ensure that it is a valid file for the type of device you have requested.

Part Number Creation: Once the first article package is complete and valid, a part number for the device is created. This part number (CLD prefix) will be used in all subsequent transactions to identify the device type, bitstream file, packaging, marking information, and any special processing. An order will be entered for the first articles. Clear Logic will provide two units for you to evaluate.

Design Package Archive: All design files and forms will be archived at Clear Logic, using a write-once-read-many (WORM) CD drive, for future reference.

Release: The design package is released for first article processing. A specification (Figure 2) for the device is created and logged into document control.

CLEAR LOGIC

CLD2013A
Device Specification

Description

CL8452ALC84-3, 84-pin PLCC version.

Reference Table

Parameter	Value
Target FPGA	EPF8452ALC84-3
Bitstream File Name	ASI8452.HEX
Bitstream File Size	18.1 KB
End Customer:	Company XYZ
Package Type	PLCC-84
Speed Grade	-3
Configuration Mode	Instant On

Attachments

CL8452AL datasheet, Package Diagram

NOTE: First Articles are suitable for functional evaluation over the operating range. They are not suitable for stress testing, such as burn-in or temperature cycling.

Supplemental Specifications

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	Comment

Special Processing

Device Marking

First Line: STANDARD

Second Line: NONE

Custom Logo? ○ Yes ◉ No

NOTE: Each part will also be marked with a 5-digit date code, which denotes the year, work week, and day of manufacture

Document No.	Revision Date	Most Recent Change
PDN-0010	8/28/98	Created

Figure 2. Device Specification Example

Processing: The first articles are laser-configured and assembled into special epoxy-filled fast-turn packaging. These packages have electrical characteristics identical to Clear Logic's injection molded production packages. The fast-turn packages provide a convenient vehicle for you to quickly verify the functioning of Clear Logic devices in your system. Clear Logic also creates and archives test programs and other device-associated files.

Shipment: The first articles are shipped to you, along with the appropriate device specification and evaluation form.

Evaluating First Articles

When you receive the first articles, please evaluate them in the target system as soon as possible. Use the first article evaluation form (Figure 3) that was shipped with your first article units. Once the device has been evaluated, please return the form. This form can be faxed to Clear Logic.

CLEAR LOGIC

CLD2013A

First Article Evaluation

Dear Customer:

Your LASIC first articles are enclosed in this package, along with the specification for the device. Please evaluate these devices in your system as soon as possible. Upon completion of your evaluation, please answer the following questions and return this form to your Clear Logic representative (or fax to 408-988-5691).

Evaluation Results

1. Did the First Articles function correctly in the target system?
   ☐ Yes ☐ No, failed as follows: _____

2. At what ambient temperature was the First Article evaluated?
   ☐ Room Temperature ☐ Other: _____

3. Over what operating voltage was the First Article evaluated?
   ☐ Nominal VCC ☐ Other: _____

Manufacturing Information

1. Standard marking for Clear Logic devices includes the part number (shown at the top right corner of this form) and the date code. Custom marking can also be supplied if desired, limited to two lines of twelve characters per line (in addition to date code). Please indicate preference below.

   ☐ Standard Mark is OK

   ☐ Custom Mark requested, as follows:
   First Line: _ _ _ _ _ _ _ _ _ _ _ _
   Second Line: _ _ _ _ _ _ _ _ _ _ _ _

2. Please indicate any special processing requests, handling requests, or comments below:
   _____
   _____
   _____

Contact Information:

Please let us know how to contact you, in the event that we have further questions regarding your evaluation.

Name _____ Phone: _____ Email: _____

Thank you for your help. Please feel free to contact me if you have any questions.

Regards,

John Beekley, Product Marketing Director
(888) 548-7788 beekley@clear-logic.com

Figure 3. Example of First Article Evaluation Form

Notices

This document revised 28 August, 1998