

# LC04: 2gt Binary Stream Splitter

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Tags: logic-and-computation, converter

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## Features

- Stateless, uses quasi-based logic

## Applications

- Rapid data transmission

## General Description

The LC04 binary stream splitter takes a 2gt repeater stream and splits it into two 4gt observer signal lines.



Figure 1: 2gt Binary Stream Splitter

## Device Specifications

**Table 1: Inputs**

Name	Range	Description
Binary stream	0-1	2gt Binary stream input.
Clock disable	0-1	Controls operation of device.

**Table 2: Outputs**

Name	Range	Description
Output 1	Pulse	Output pulse line 1
Output 2	Pulse	Output pulse line 2

**Table 3: Device Specifications**

Parameter	Min.	Typ.	Max.	Unit	Conditions
MC Version	1.13	1.17.1	-	MCV	Latest version at time of writing: 1.19.3
Dimensions	3 x 4 x 8			Blocks	

## Testing Data

**Table 4: Executed Tests**

Test	Result
Conversion test	Device was able to split 2gt binary stream into 2 4gt streams correctly.

## Download Information

**Table 5: Download Information**

Identifier	MC	File	Description
LC04	1.17.1	<a href="#">LC04_2gt_binary_stream_splitter_p1.litematic</a>	Schematic of device.