

LC04: 2gt Binary Stream Splitter

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Tags: logic-and-computation, converter

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	LC04_2gt_binary_stream_splitter_p1.litematic	Schematic of device.