

# LC03: Await Latch

By: Andrews54757

Tags: logic-and-computation

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## Features

- 2 Wide and 2 High
- "Unbreakable"

## Applications

- Queueing tasks

## General Description

The LC03 Await Latch takes one pulse input and one boolean input. Pulse only goes through when boolean input is on. If it is off, it will wait until boolean input turns on and then send pulse. Won't break with random inputs.



Figure 1: Await Latch

## Device Specifications

**Table 1: Inputs**

Name	Range	Description
Pulse input	pulse	Pulsed signal to transport.
Ready input	0-1	Delays pulsed signal until ready.

**Table 2: Outputs**

Name	Range	Description
Output	Pulse	Output pulse

**Table 3: Device Specifications**

Parameter	Min.	Typ.	Max.	Unit	Conditions
Throughput	12	-	-	gt	Normal Usage
Latency	4	-	-	gt	From input to output
MC Version	1.13	1.17.1	-	MCV	Latest version at time of writing: 1.19.3
Dimensions	2 x 2 x 7			Blocks	

## Testing Data

Table 4: Executed Tests

Test	Result
Spam test	Device didn't break with spammed inputs.
Throughput test	Device was able to pulse signals successfully at 12gt throughput.

## Download Information

Table 5: Download Information

Identifier	MC	File	Description
LC03	1.17.1	<a href="#">LC03_await_latch.litematic</a>	Schematic of device.