

# LC09: Tiny Request Manager

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## Features

- Random input proof
- Infinitely expandable
- Pausable
- Compact. 8x4x5 volume.

## Applications

- Safely queueing processes in a system.

## General Description

The LC09 Tiny Request Manager is a device that can be used to queue requests in a system. It ensures that only one request is processed at a time regardless of random request timings. The device is infinitely expandable and can be paused. Note: Reset input is not rapid input proof.

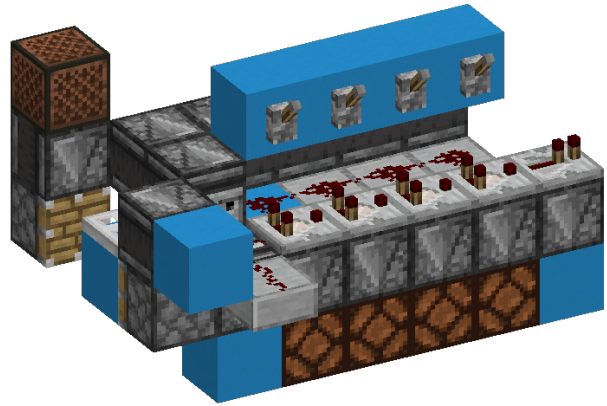


Figure 1: Tiny Request Manager

## Device Specifications

Table 1: Inputs

Name	Range	Description
Task Enables 1-4	0-1	Requests output for a task.
Reset	Pulse	Resets the device to process the next request. Not rapid input proof. 10gt between triggers.
Pause	0-1	Pauses the device.

Table 2: Outputs

Name	Range	Description
Output	Pulse	Outputs

Table 3: Device Specifications

Parameter	Min.	Typ.	Max.	Unit	Conditions
Throughput	10	-	-	gt	Normal Usage
Latency	16	-	-	gt	From lever input to torch depowering.
MC Version	1.13	1.21.4	-	MCV	Latest version at time of writing: 1.21.4
Dimensions	8 x 4 x 5			Blocks	

## Testing Data

Table 4: Executed Tests

Test	Result
Throughput test	Device was able to function with 10gt clocked input. Note: levers must not go from all off to on while clocking. Invalid toggle-state position was observed in this case.
Random input test	Device was able to process requests correctly with random lever inputs.

## Download Information

Table 5: Download Information

Identifier	MC	File	Description
LC09	1.21.4	<a href="#">LC09_Tiny_Request_Manager.litematic</a>	Schematic of device. Includes three variants.
LC09B	1.19.3	<a href="#">LC09_Tiny_Request_Manager_1.19.3.litematic</a>	Schematic of device for older versions.